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UNION SEED & FUEL CO

**FARM
FIELD
GARDEN**

SEEDS

POULTRY SUPPLIES



1922

CATALOG

BOISE - 1115.10 ST. - IDAHO.

1922

GREETINGS

1922

In offering our TENTH ANNUAL CATALOG we do so with the confidence that every item listed is of a quality that will give most satisfactory results and that the prices are absolutely right. Our many years of experience in selecting seeds best adapted to this climate assures maximum yield. Each year has brought us an increased number of customers which is the best evidence of our reliability and the fairness of our prices. We ask you to compare our prices, quality considered, with those of any other RELIABLE house and we believe your choice will be in our favor. While you will notice prices are much less than last year we have put forth every effort to maintain the same high standards of quality as in the past. Make your home garden help increase your bank account this year.

Yours for a bumper crop through the use of better seeds the coming year.

Union Seed & Fuel Company

Art E. Cunningham, President.

H. E. Campbell, Secretary.

U. S. Wheat Director License No. 535742EH

U. S. Food Adm. License No. 035742EH

Notice to Customers--Read Carefully

TERMS OF SALE

No goods sent C. O. D. Please accompany your order with remittance in full by draft, money order or cash in registered letter. We can take 2c postage stamps in moderate amounts.

ORDER EARLY

We earnestly solicit our friends to send their orders to us early—at once—before the rush is on. No matter how small or large your order it will receive our careful attention.

Use the order sheet and our self-addressed envelope, and ask for more when you want them.

IF GOODS DO NOT ARRIVE PROMPTLY after receiving our notice that goods have been shipped, please write us.

GOODS BY MAIL.

All Garden and Flower Seeds, also certain Bulbs and Plants, are sent by mail or express without further cost, except Beans, Corn, and

Peas, also Onion Sets, Grain, Grass, Field Seeds and Plants, which require 5c for first pound and 1c each additional pound added to the remittance when wanted by mail.

GOODS BY EXPRESS OR FREIGHT.

When ordering to be shipped at your expense goods priced "prepaid" you may deduct postage from prices. Often we send by express prepaid, instead of by mail goods priced prepaid. If not convenient for you to receive by express be sure to mention when ordering. Whenever our notification cards say "prepaid" you are to pay nothing. Write us at once if charge is added.

PARCEL POST RATES.

Be sure and read headings carefully as to parcel post on BEANS, CORN, PEAS, PLANTS, ETC. One-half pound or less goes at 1c for each 2 oz.

Parcels cannot exceed 84 inches in length and girth combined. Limit weight, 1st to 3rd zones, 70 lbs.; 4th to 8th zones, inclusive, 50 pounds.

NON-WARRANTY

So many conditions arise in the growing of plants from seed, and in setting out plants that are grown from seed, over which we have no control, that success is not altogether dependent on the seed or plant. We will send out only seed that we believe will grow and produce the kind of plant and variety represented. However, the UNION SEED & FUEL CO. gives NO WARRANTY, expressed or implied, as to description, quality, productiveness, or any other matter, of seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once.

ADDRESS ALL ORDERS TO

UNION SEED & FUEL COMPANY

PHONE 111.

Post Office Box 1465.

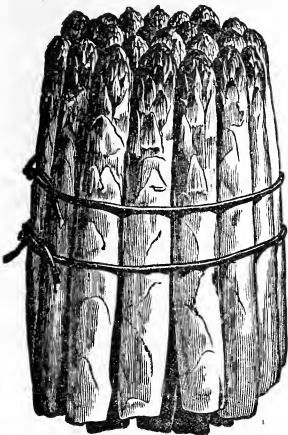
PHONE 112

STORE 111 SOUTH TENTH ST., Majestic Theater Building.

Warehouses on R. R. Track, 317 South Thirteenth Street.

ASPARAGUS

Asparagus is one of the earliest spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality, it can be produced very easily and cheaply. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the ordinary family.



CULTURE—Soak the seeds 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 300 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly preferred to fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manure.

PALMETTO.

Is of very large size, even and regular in growth and appearance. It is very early, immensely productive, and of the best quality. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.00.

CONOVER'S COLOSSAL

The standard variety; of large size, tender and of excellent quality. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.00.

Roots of above variety, 20c per dozen, \$1.00 per 100, by express. Prices for large quantities on application.

OWING TO UNSETTLED MARKET CONDITIONS ALL PRICES IN THIS CATALOG ARE SUBJECT TO MARKET FLUCTUATIONS WITHOUT NOTICE.

BEANS—Dwarf or Bush.

Add for postage 5c for first lb., and 1c each additional lb. $\frac{1}{2}$ lb. or under, 1c each 2 oz.

CULTURE—Plant in drills about 2 inches deep and from 18 inches to 2 feet apart, according to the richness of the soil—the poorer the soil the closer they can be planted; the plants should be about 3 inches apart. A succession of sowings can be made from the first week in May until August. One lb. to 50 feet of drill; 60 to 80 lbs. to an acre.

GREEN PODDED VARIETIES.

BURPEE'S STRINGLESS.

Extra early, round, fleshy pods; very brittle, almost entirely stringless, rust proof, vigorous, productive, and without doubt the best green podded beans known.

Pkt. 10c; $\frac{1}{2}$ lb. 15c; lb. 25c; 2 lbs. 45c.

BROWN SPECKLED VALENTINE.

Matures in 40 days after germination; pods round and fine in flavor. Habit of growth vigorous—requires twice the ordinary room. Pkt. 10c; $\frac{1}{2}$ lb. 15c; lb. 25c; 2 lbs. 45c.

TEPARY BEAN

A dry land bean, grown here the past season with practically no water. A white bean, smaller than the Navy, better flavor, and a perfect drouth resister. Try them. Pkt. 10c; $\frac{1}{2}$ lb. 15c; lb. 25c.

ROUND YELLOW SIX WEEKS.

Very similar to Long Yellow Six Weeks as to vine, with pods shorter and much more thick and fleshy; about one week later, being ready for table 57 days from planting. Seed round, yellowish drab, with a slightly darker marking about the eye. Pkt. 10c; $\frac{1}{2}$ lb. 15c; lb. 25c; 2 lbs. 45c.

DWARF HORTICULTURAL.

Vigorous grower, large green pods, splashed with carmine. Excellent, either as snap in green state, shelled green or dry. Pkt. 10c; $\frac{1}{2}$ lb. 15c; lb. 25c.

BUSH LIMA.

BURPEE'S BUSH LIMA.

It is the true bush form of the old large Lima pole beans. It grows vigorously to a height of 18 to 20 inches, forming a circular bush two or two and a half feet in diameter, yielding from 50 to 100 fine pods similar to those grown on the Large White Pole Lima. Pkt. 10c; lb. 30c.

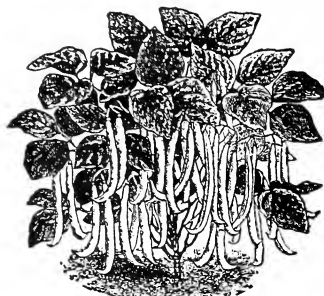
HENDERSON'S BUSH LIMA.

The New Bush Lima grows without the aid of stakes or poles, is compact, bush form, from 15 to 18 inches high, and produces enormous crops of delicious Lima Beans. The New Bush Lima is at least two weeks earlier than any of the climbing Limas. Pkt. 10c; lb. 30c; 2 lbs. 55c.

KING OF THE GARDEN LIMA.

The vines are very vigorous and prolific. Pods are of large size, filled with four or five large beans of very fine quality. The beans are easily shelled and of handsome appearance. A favorite with market gardeners. $\frac{1}{4}$ lb. 10c; $\frac{1}{2}$ lb. 15c; lb. 30c.

ORDER EARLY



OUR IDAHO

A Dwarf Bush Growing only One Foot High
One of the finest dry beans grown. It leads all others, being three times the size of the Navy, and half the size of the Lima. Is far superior to either for flavor. You should plant a quantity of this bean for your winter supply. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c.**

YELLOW PODDED VARIETIES

IMPROVED GOLDEN WAX

The pods are large, long, half round, brittle and entirely stringless, and of a beautiful rich golden wax color. As a snap bean it excels every other variety in tenderness and rich buttery flavor, while as a shell bean for winter use it has few or no superiors. It is very prolific, of dwarf, compact growth.

Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c.

IMPROVED BLACK WAX

This is an improvement over the old Black Wax, and is equal to our Improved Golden Wax. The pods are of a rich golden color in green state.

Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c.

PENCIL POD BLACK WAX BEANS.

"Pencil Pod" is one of the most satisfactory of the early dwarf Wax Beans. Of dwarf, bushy growth, about 15 inches high, large, luxurious foliage, beneath which in great clusters will be found an enormous crop of beautiful straight yellow pods, six to seven inches long, well rounded, deeply "saddle-backed," meaty and solid clear through; they are brittle, of rich, mild flavor, and entirely stringless. An early sure cropper; of the finest quality. **Pkt. 10c; 1 lb. 25c; 10 lbs. \$2.25.**

BEANS—Pole or Running

Add for postage 5c first lb. and 1c each additional lb. ½ lb. or under, 1c each 2 oz.

Pole beans mature very well in Idaho. They should be more extensively grown, as they can be planted with corn, which will furnish the support to climb on. All the following Pole Beans: **Pkt. 10c; ½ lb. 15c; 1 lb. 25c.**

LAZY WIFE

This is popular in many localities. As its name indicates, a handful of choice stringless pods at a single grab. The pods are broad, thick, very fleshy and possess a rich buttery flavor when cooked. The beans are white and make a very good dry bean for winter use.

KENTUCKY WONDER.

Vine vigorous, climbing well and very productive, bearing its pods in large clusters; pods green, very long, often reaching nine or ten inches, nearly round when young and very crisp; becoming very irregular and spongy as the bean ripens.

LARGE WHITE LIMA OR BUTTER.

Rich and finest flavor, and one of the best pole beans. **Pkt. 10c; ½ lb. 15c; 1 lb. 30c.**

DUTCH CASE KNIFE.

Pods long, green and flat; can be snapped or shelled. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c.**

FLOWERING BEANS

Very desirable for trellis, or to cover old fences, etc. While the green seeds are edible, the attractiveness is the profuse blossoms.

SCARLET RUNNER. The old popular scarlet flower. **Pkt. 5c; ½ lb. 20c.**

WHITE RUNNER. A pure white flower. **Pkt. 5c; ½ lb. 20c.**

TRI-COLOR RUNNER. Pink and white in the same blossom. **Pkt. 5c; ½ lb. 20c.**

Get our Quantity Prices on Beans.

BORECOLE OR KALE

DWARF GREEN.

Sow in the spring for "sprouts" or "greens." Hardy, prolific, flavor similar to cabbage, desirable in every garden. **Pkt. 10c; oz. 15c; 1 lb. \$1.00.**

BROCCOLI

CULTURE—Sow early in the spring, transplant and cultivate the same as cabbage. The Broccoli is a species of Cauliflower, but more hardy and closer grained; does best in cool moist climate. They will produce heads in October and November, and should any plant not be forward enough for use before frost, let them be removed to a light cellar, where they will head during the winter.

PURPLE CAPE. **Pkt. 10c; oz. 35c; 1 lb. \$1.00.**
ST. VALENTINE. This new strain is a sure header of immense size; heads extra early, pure white, and remains in good condition longer than any other variety. Try this and compare with best cauliflower.

Pkt. 10c; ¼ oz. 40c; 1 oz. \$1.00.

BRUSSELS SPROUTS

CULTURE—Cultivated for the small heads that grow in considerable number from the same stem. It is a delicacy much esteemed by some. Sow in bed middle of spring, transplant and manage as winter cabbage.

Pkt. 10c; oz. 20c; ¼ lb. \$1.00.

WE ARE AUTHORIZED DISTRIBUTORS FOR SWIFT & CO.'S FERTILIZERS. SEE PAGE 30.

FOR ALL KINDS OF POULTRY SUPPLIES, SEE PAGE 32.

BEET

CULTURE—Beets require a deep, rich, mellow soil, and may be sown from early spring to commencement of summer. Drop about 1 inch deep in drills 12 to 18 inches apart. One ounce to 60 feet of drill; 6 to 8 lbs. to the acre.

ECLIPSE

It is nearly as early as Egyptian and more desirable, owing to its globe shape, great smoothness and regularity, having a small top; very sweet, fine and dark blood color.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

EARLY BLOODRED TURNIP.

Here we have the old standby, the turnip beet, with its dark color, well known to so many homesteads. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

EXTRA EARLY EGYPTIAN

An extra early turnip shaped variety; has small tops and grows quickly. The flesh is in alternate rings of white and deep red.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.



the row. The soil should be mellow, rich and well drained. For late crop the seed can be sown in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in three gallons of water sprinkled over the cabbages will destroy the green worm. The liquid, being clear, does not discolor the cauliflower or cabbage heads. Fine air-slaked lime or tobacco dust, sifted on the ground, will prevent them from doing any harm. One ounce will produce about 2000 plants. About 16,000 early or 8,000 late cabbage plant one acre.

EARLY WINNIGSTADT.

A well known and very popular variety in season very close to the Wakefield. Heads large, decidedly conical, leaves bright, glossy green; heads solid and hard, even in summer. This is a very sure heading variety, valuable not only for early use, but for winter cabbage.. Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

OTHER STANDARD VARIETIES.

DETROIT DARK RED. Extremely popular for market and canning. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

HALF LONG BEET. Yields more than the turnip rooted varieties. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

MARKET GARDENER. A standard variety suited for table use. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

SWISS CHARD. Used only for greens. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

MANGEL WURZEL FOR STOCK FEEDING

CULTURE—They require a soil plowed deeper and the drills further apart than garden beets. Sow in April or beginning of May in drills from 2 to 3 feet apart, and when 4 or 5 inches high thin to 12 to 18 inches in the rows.

GOLDEN TANKARD MANGEL WURZEL

This is undoubtedly one of the most profitable varieties to grow for stock, as it is an enormous cropper, and is said to be one of the most nutritious Mangels in cultivation. Color, bright yellow.

Not postpaid, lb. 60c; 5 lbs. \$2.50; 10 lbs. \$4.75.

MAMMOTH LONG RED MANGEL WURZEL

This is a particularly fine mangel, growing from one-half to two thirds above ground. The roots attain enormous size; smooth and regular in shape.

Not postpaid, lb. 60c; 5 lbs. \$2.50; 10 lbs. \$4.75.

DANISH SLUDSTRUP

Long reddish yellow, grows well above ground and is easy to pull. One of the best mangels grown. Try these.

Not Postpaid, lb. 60c; 5 lbs. \$2.50.

GIANT FEEDING SUGAR BEET OR HALF SUGAR MANGEL WURZEL.

This new Sugar Beet gives nearly as large of easily grown and harvested roots as a crop of Mangels, besides being much more succulent than the ordinary Sugar Beet. It grows well above the ground and is easily pulled. Under same cultivation will yield twice more than regular sugar beets.

Not postpaid, lb. 60c; 5 lbs. \$2.50; 10 lbs. \$4.75.

KLEIN WANZELEBEN SUGAR

The most popular variety for sugar factories. The sugar content depends on intelligent care and development on the part of the seed grower. It is wedge shaped, wide at the top and tapering gradually to a long tail. This variety is most planted by sugar factories as it has a high sugar content; makes good food for cattle.

Pkt. 5c; ¼ lb. 40c; lb. \$1.00; postpaid; by freight or express, 10 lbs. \$9.00.

CABBAGE

CULTURE—For early cabbages sow the seed in a hot bed in March and April, covering the seed from ¼ to ½ inch deep, and when big enough, transplant to another bed. As soon as the ground is in good condition, transplant outside in rows 2 feet apart and 15 to 18 inches in the row. The soil should be mellow, rich and well drained. For late crop the seed can be sown in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in three gallons of water sprinkled over the cabbages will destroy the green worm. The liquid, being clear, does not discolor the cauliflower or cabbage heads. Fine air-slaked lime or tobacco dust, sifted on the ground, will prevent them from doing any harm. One ounce will produce about 2000 plants. About 16,000 early or 8,000 late cabbage plant one acre.

TRUE JERSEY WAKEFIELD

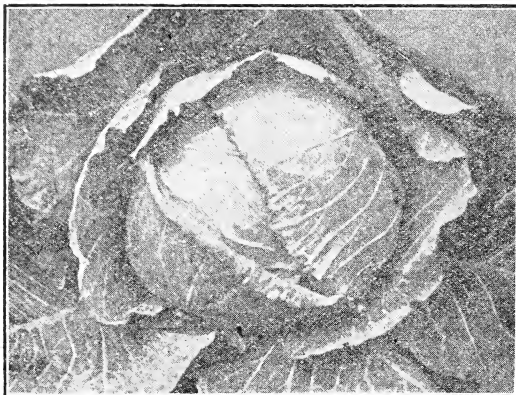
This is an admirable sort, suited to the family and market garden. The heads begin to mature the latter end of June to the first of July, and may be cut in succession for several weeks. Our seed is true Long Island grown. Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

**MEDIUM EARLY AND LATE VARIETIES.
EARLY DWARF FLAT DUTCH.**

Has succeeded admirably on account of its ability to resist heat; it never flaws under the severest sun, and produces very fine heads after the earliest varieties have disappeared. We recommend it highly.
Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

THE GLORY CABBAGE

This is as early as Early Flat Dutch, but is also one of the very best winter cabbages, and



Select Danish Ball Head

is unexcelled in delicious flavor, crispness, solidity, and keeping qualities. No other cabbage combines so many excellent qualities in such marked degree. Pkt. 5c; oz. 40c; lb. \$4.00.

OTHER STANDARD VARIETIES.

SUREHEAD—Produces large, round, flattened heads. Second early. Pkt. 5c; oz. 35c; ¼ lb. \$1.25; lb. \$4.50.

MAMMOTH RED ROCK—This is by far the best, largest and surest heading red cabbage. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

COPENHAGEN MARKET

Early variety, popular with market garden-

ers. One of the finest round head cabbages in cultivation. Heads mature at same time, averaging about 10 pounds each. A short-stemmed variety, fine and sweet.

Pkt. 5c; oz. 40c; ¼ lb. \$1.50; lb. \$4.50.

DANISH BALLHEAD

This winter variety is especially desired on account of its great solidity and its keeping qualities. They weigh more than other sorts of equal size. The heads are crisp, tender and sweet, and unsurpassed for boiling, slaw, sauer kraut, etc. It grows well on all soils and under most conditions, withstanding hot, dry weather, and does not rot in wet seasons.

Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

SHORT STEM BALL HEAD.

Similar to the Danish Ball Head except it has a very short stem and retains all the good qualities of the long stem. Pkt. 5c; oz. 45c; ¼ lb. \$1.75; lb. \$4.50.

PREMIUM LATE FLAT DUTCH.

As a variety for winter it has no superior. Heads large, bluish green, round, solid, broad and flat on top.

Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

VOLGA.

A Russian cabbage which has a deep, hard, round head, short stem, grows close to the ground. It matures earlier than any other late variety. Heads weigh from 12 to 14 lbs. Our seed is home grown and is absolutely the best. Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

ALL SEASONS. A grand variety. We can recommend the All Seasons as one of the best and surest cabbages to grow. For the market gardener it is one of the most useful, marketable, and profitable. It is perhaps the safest variety for the amateur to plant as it does well at all seasons and is a very sure cropper. The heads are dark blue in color, and being tender and fine keeping, are excellent for fall and winter use as well as during the summer. Pkt. 5c; oz. 35c; lb. \$5.00.

CARROT

CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops they may be sown any time until the middle of June. Sow in rows, about 15 inches apart, thinning to 3 inches between plants. Do not cover more than ½ inch deep. One ounce to 150 feet of drill; 3 pounds to an acre.

CHANTENAY.

One of the most perfect and uniform in shape, smooth, heavy yielding, and of fine table qualities. It grows 5 or 6 inches long; is fine in texture and easily dug; the flesh is of a beautiful deep orange, tender and of excellent flavor. Pkt. 5c; oz. 20c; ¼ lb. 40c; lb., 90c.

EXTRA EARLY SCARLET HORN.

An excellent forcing variety, very tender and fine flavor; small growth. The best for hot beds and cold frames, or the earliest out-of-doors planting. Pkt. 5c; oz. 20c; 4 ozs. 40c; lb., 90c.

OX HEART OR GUERANDE

This new French carrot is one of the most valuable of all recent introductions either for family use or market. It is an intermediate between the Half Long and Horn varieties, attaining a diameter of 3 or 4 inches at the neck, and of most beautiful shape and rich orange color. It is of extra fine quality and very productive. Pkt. 5c; oz. 20c; ¼ lb. 40c; lb., 90c.

DANVERS HALF LONG.

Admirable in color, fixed in habit, a wonderful producer; the best of all for the stock breeder, and valuable to the market gardener. With this variety the planter secures the largest return to the acre with the least difficulty in harvesting. Pkt. 5c; oz. 20c; ¼ lb. 40c; lb., 90c.

LARGE WHITE BELGIAN

Grows one-third out of the ground. Root pure white, green above ground, with small top. It will grow to a very large size on light, rich soil, and is very easily gathered. Flesh rather coarse; is raised exclusively for stock. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 75c.

LARGE YELLOW BELGIAN CARROT

Same as Large White Belgian, except in color. Pkt. 5c; oz. 15c; lb. 75c.

YELLOW GIANT CARROT

One of the earliest and most productive stock carrots on the market. A half long variety, less than half the length in ground; bright yellow, and excellent for cow feed. A big yielder. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb., 90c.

CAULIFLOWER

CULTURE—Same as for cabbage, except that extra manure and plenty of water will pay with cauliflower. If the soil is dry, water frequently, and if the plants could have mulch of hay or straw it would keep the soil moist and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than May 1st; the late kinds may be planted out same as cabbage. One ounce produces 1,500 plants; 15,000 plants will cover an acre. Our Cauliflower and Cabbage Plants usually ready through May and June. See back part of catalog.

DANISH SNOWBALL.

This variety, by innumerable trials, has established the claims made for it. The plants are very dwarf. The outer leaves are erect. The inner ones lap over the head so as to completely shade from the sun. It is a valuable variety for early and late. Pkt. 15c; ¼ oz. 75c; oz. \$2.50; ¼ lb. \$8.00.



Golden Self Blanching

DANISH DRY WEATHER CAULIFLOWER

Especially adapted for dry localities. Produces large, solid, pure white heads. Make the ground rich and you will be pleased with results from this seed. Pkt. 15c; ¼ oz. 75c; oz. \$3.00; ¼ lb. \$9.00.

EARLY PARIS CAULIFLOWER

A most excellent French variety and the popular early sort in Paris markets. Heads large, white, compact, and solid, of excellent flavor, tender and delicious. Leaves large, stalk short. Being so early, it must always be a favorite. Pkt. 10c; ¼ oz. 35c; oz. 80c; ¼ lb. \$3.00.

VEITCH'S AUTUMN GIANT CAULIFLOWER

A distinct and valuable late variety. Heads very large, white, firm and compact, and remain for a long time fit for use. The plants should be started and transplanted early in the season to insure their full development. Pkt. 10c; ¼ oz. 25c; oz. 80c; ¼ lb. \$2.50.

CELERY

CULTURE—The conditions necessary for successful celery cultivation are good seed, plenty of manure and complete fertilizers, moisture and cultivation. The most suitable soil is rich loam finely pulverized, and highly enriched with 30 to 40 loads to the acre of good stable manure. Sow seeds in boxes for early planting, later plants may be produced from seeds sown in frames or open ground. Transplant 4 inches apart when 3 inches high. Water and protect until well rooted, then transplant into rows for garden culture, 18 inches to 2 feet apart; for field culture, in rows 4 to 6 feet apart, set the plants from 8 to 12 inches apart, supply plenty of moisture and see that plants receive thorough cultivation. They may be set either on the surface or in well manured trenches 1 foot in depth. To blanch, draw earth around the plants, being careful not to cover the tops of the center shoots.

WHITE PLUME

The earliest variety grown, can be blanched for the table in September. It is a self-blanching variety; easily grown by anyone. Stalks and inner leaves white, crisp and delicious. ½ oz. 15c; oz. 25c; ¼ lb. 60c; lb. \$2.00.

GOLDEN SELF-BLANCHING

Valuable early variety, compact, and stocky, thick, solid, brittle. The large hard stalks and inner leaves are beautiful golden yellow. Rich flavor. Pkt. 10c; oz. 50c; ½ lb. \$2.75; lb. \$5.00.

GIANT PASCAL.

This choice celery is of a sweet, nutty flavor; stalks thick, solid, stringless, almost brittle as glass; bleaches with slight earthing; very satisfactory for all purposes. ½ oz. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

Celery Plants Can Be Shipped in June and July. See PLANT LIST.

CELERIAC OR TURNIP ROOTED.

Grown exclusively for its roots, which are turnip shaped, very smooth, tender and narrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad. They are used for seasoning meats and to flavor soups.

Pkt. 10c; oz. 20c; ¼ lb. 60c.

LARGE ROOTED CHICORY.

A hardy plant introduced from and much used in Europe as a substitute for coffee. In the fall the roots require to be taken up and cut into small pieces and put where they will dry requiring the same treatment used for drying apples. When required for use, it should be roasted and ground like coffee. Requires similar treatment to carrots.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

CHIVES

The Chives are small and not very important members of the onion tribe, but quite hardy everywhere. The leaves are slender and appear very early in the spring, and may be shorn during the season. They are propagated by divisions of the roots.

Pkt. 5c; ¼ oz. 25c; ½ oz. 50c; oz. 90c.

COLLARDS, GEORGIA SOUTHERN OR CREOLE.

This is the variety so extensively used in the south, where it furnishes an abundance of food for both man and beast. Forms a large, loose, open head, of a mass of leaves on a tall stem. Freezing improves the quality. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

SWEET CORN**Write for Quantity Prices**

CULTURE—All varieties of sweet corn may be either sown in rows 4½ feet apart, and the seeds planted about 8 inches in the row, or planted in hills at a distance of three or four feet each way, according to the variety grown or the richness of soil in which it is planted. Sweet corn should not be planted deeper than 1½ inches, as it is liable to rot in the ground. Ten lbs. to an acre.

Prices for all varieties listed: ½ lb. 10c; lb. 20c; 10 lbs. \$1.75. If by mail, postage must be added at the rate of 5c for first lb. 1c extra each additional pound.

NEW GOLDEN BANTAM—The Earliest of All Sweet Corns

This new sweet corn is described as the tenderest, sweetest and best evergreen sweet corn in existence. Its attractive yellow color being another good feature added to its many good qualities, makes it an easy seller on the market. The stalks are vigorous and strong, growing about 4 feet high, and produce 3 to 4 fine 8-rowed ears 6 to 8 inches long. On account of its firm texture it can be planted earlier than any other variety of sweet corn, and is less apt to be bothered by worms.

PEEP O' DAY

It is not only one of the earliest sweet corns, but is very sweet and immensely productive, stalks producing from 2 to 5 large ears and being dwarf, about 4 feet in height, admits of close planting.

WHITE COB CORY.

For a strictly early, for the first market and home use, you can't be far wrong with White Cob Cory. We offer northern grown extra early matured seed.

COUNTRY GENTLEMAN

These ears are not only of good size, but are produced in great abundance, frequently bearing four good ears, while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly white quality. It is without doubt the sweetest and most tender of all sweet corns, and at the same time with ears of good size.

EARLY MINNESOTA

This is among the earliest of the sugar varieties, and is much esteemed not only because it matures early, but for the excellent qualities as well. Ears rather small, long and pointed.

STOWELL'S EVERGREEN.

This variety is more largely planted than any other, being the general favorite with canners and market gardeners for late use. It is very productive, the ears are large size, grains deep, exceptionally tender and sugary, and remains for a long time in an edible condition.

EARLY EVERGREEN

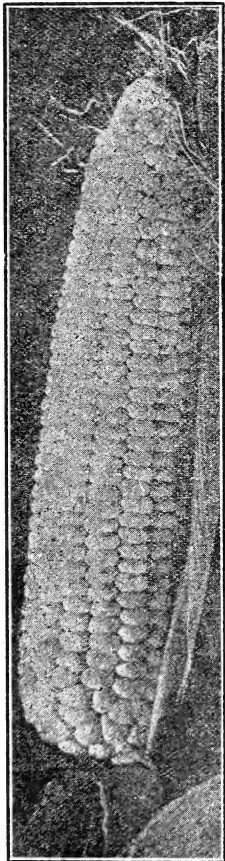
This corn has all the good qualities of its parent, "Stowell's Evergreen," but matures earlier. Stalks grow from 6 to 8 feet high.

BLACK MEXICAN

This corn, when in condition for the table, cooks remarkably white, but the ripe grain is black or bluish black. It is surpassed by none in tenderness. For family use it is considered the most desirable of the medium late sorts.

WE GROW OUR OWN SWEET CORN SEED.

ASK US ABOUT SWEET CORN SUITABLE FOR SILO.



Early Evergreen

CORN SALAD**BROAD LEAVED**

Used as a small salad throughout the winter and spring. Sow thickly in drills, cover slightly at first of autumn and sprinkle with straw at the approach of severe weather, or sow in a cold frame, covered in winter as may be convenient—thus it is accessible, even when deep snow prevails.

Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$2.00.

CRESS**GARDEN CURLED OR PEPPER GRASS.**

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.00.

TRUE WATER CRESS.

It is quite distinct from the Garden Cress, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found.

Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

CUCUMBERS

CULTURE—Drop in hills 4 to 6 feet apart, as soon as the weather becomes settled and warm. Scatter 8 or 10 seeds to a hill and cover half an inch deep, and pat it down with a hoe. Hoe often, and when out of danger of insects, thin to 4 plants to a hill. June and July is the time to sow for pickling. One ounce to 50 hills; two pounds to an acre.

EARLY WHITE SPINE

Vines vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green, with a few white spines; flesh tender and of excellent flavor. In this country this variety is used more, perhaps than any other, for forcing under glass.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

EARLY FRAME

Of early growth and vigorous; fruit medium size and straight. It is popular for both table use and pickling.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

BOSTON PICKLING

A distinct variety which has attained great popularity in the Boston market as pickle. Medium long, a great producer.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

JAPANESE CLIMBING

While all cucumbers are running vines, this variety is much more so than others. It climbs quickly on poles or trellises and is entirely distinct. The quality is splendid and well adapted for pickling and salads. The great advantage of having a cucumber trained on a pole or fence is evident.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

IMPROVED LONG GREEN

Unquestionably this is the most popular general purpose cucumber in the west. When matured it is 9 to 12 inches long, very solid and crisp, and retains its dark green color until nearly ripe. One of the best for small pickles if pickled properly.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

DAVIS PERFECT

This is one of the very best cucumbers grown, both for forcing and for out of doors. It is slim and symmetrical in shape, and from 9 to 12 inches long and of a dark, glossy green color, changing to white, without a streak of yellow, only when nearly ripe.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

EVERBEARING

This variety is of small size, very early, enormously productive, and valuable as a green pickle. Its peculiar merit, however, is that the vines continue to flower and produce fruit until killed by frost, whether the cucumbers are picked off or not.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

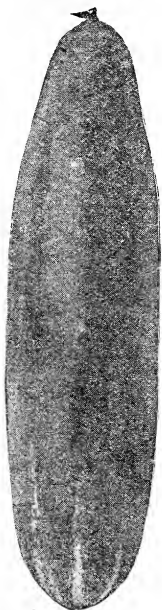
ENDIVE

CULTURE—It is the same as lettuce. In order to bleach the green varieties, gather all the green leaves together and tie them for a few days. It furnishes an appetizing salad for the fall and winter months.

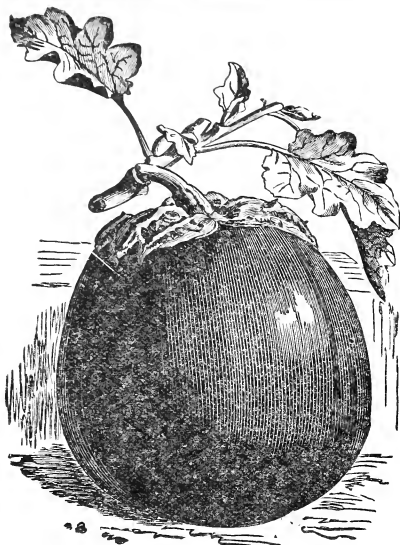
GREEN CURLED.

Leaves finely cut and lacinated; bleaches very readily.

Pkt. 10c; oz. 15c.



Select White Spine



New York Improved Egg Plant

EGG PLANT

CULTURE—Sow in hotbeds very early in the spring; thin them out as soon as big enough to be handled to three or four inches

each way; and transplant to 2 or 3 feet apart in very rich, warm ground. - Do not plant them outside till the nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take two or three weeks before they get over it. Hoe often and hill up gradually till they blossom. One ounce to 1,500 plants.

**NEW YORK IMPROVED
Large Purple Spineless**

This variety has about superseded all others, both for market and home garden; a favorite in Idaho. Our stock is extra selected direct from the best growers.
Pkt. 10c; ¼ oz. 15c; oz. 40c; ½ lb. \$1.50.

GARLIC

The garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather.

Bulbs, lb. 50c. Ask for quantity price.

KOHL-RABI

CULTURE—Sow in the spring in rows 18 inches apart, afterwards thin to 8 to 10 inches in the row. The edible part of the turnip-shaped bulb is formed by the enlargement of the stem. When used for the table they should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy. One ounce produces 2,000 plants.

EARLY WHITE VIENNA

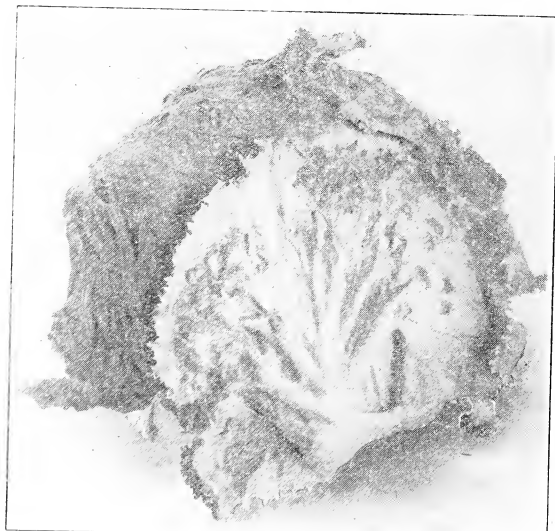
The earliest and best for forcing; very tender; excellent for table use.

Pkt. 10c; oz. 20c; lb. 60c.

EARLY PURPLE VIENNA

Same as above, only differs in color.

Pkt. 10c; oz. 20c; ½ lb. 60c.

LETTUCE

New York, Los Angeles, or Wonderful Lettuce

CULTURE—The early sowing may be made under glass, in January or February, keeping the plants thin and admitting plenty of air every fine day. For a succession, outside, sow every two weeks, as soon as the ground is open, in drills one foot apart, covering the seed about ¼ inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. They do best in a rich and moist soil. One ounce to 3,000 plants.

NEW YORK, LOS ANGELES, OR WONDERFUL.

(The Best Head Lettuce for Market Growers)

This is the mammoth head lettuce so popular in California called "Los Angeles." The immense heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Pkt. 10c; oz. 35c; ½ lb. \$1.00; lb. \$3.00.

Ask for quantity prices.

LETTUCE**CABBAGE OR HEADED VARIETIES
BIG BOSTON**

This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size, often 10 to 12 inches across, and succeeds better in a cooler temperature than most forcing strains. The large heads are beautifully blanched and of superior quality. It heads well also in the open ground during cool weather or spring and fall, and is very popular in the south to grow for shipping north. Our seed is the choicest it is possible to produce.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

CALIFORNIA CREAM BUTTER

Heads large, round, and of a beautiful appearance. The outer leaves are medium green marked with small brown spots; inner leaves of a rich cream color. Medium early, and makes a good sort for summer use. Quality very good, rich, buttery flavor.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

EARLY PRIZE HEAD

It forms a large head and remains tender and crisp throughout the season; it is prompt to head but the leaves are very large, crimped slow to seed, and of superior flavor, bright green tinged with brownish red on edge.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

IMPROVED HANSON

A white seeded lettuce of American origin, especially adapted to outdoor culture. The leaves are crumpled, the head proper is hard, tender and crisp, with white blanched appearance at the center. The average size is quite large. In table quality this lettuce is free from bitter taste, having sweet rich flavor, even to the outer leaves. Resists heat and drouth well, and is slow to run to seed.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

BLACK SEEDED SIMPSON

One of the best, either for forcing under glass or for open ground culture. It forms large, thin, loose leaves, of light green color, very tender, crisp and of fine quality. A fine sort for summer, as it withstands the heat; also for the home garden.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

TENNIS BALL—Pkt. 5c; oz. 15c; lb. 75c.

**CURLED OR LOOSE LEAF VARIETIES
EARLY CURLED SIMPSON**

One of the best early sorts for market or family use; recommended for general cultivation.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

GRAND RAPIDS

As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and standing for some days after being fit to cut. The plant is upright and forms a large, loose head or cluster of yellowish green leaves. Slightly crimped and blistered and rather thin. It will stand shipping long distances better than most sorts.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

LEEK.

CULTURE—A hardy species of onion sown in drills or broadcast. When six inches high, transplant into rows a foot apart, setting the plants 4 to 5 inches deep and about 6 inches apart in the rows. Used mostly in soups and stews. One oz. to 1000 plants.

LARGE LONDON OR SCOTCH FLAG

This leek, aside from being valuable for soups and salads, when bleached makes an excellent dish if sliced and cooked like green peas. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

MUSK MELON

CULTURE—The soil for musk melons must be light, rich and sandy; if grown on a heavy soil the quality will be poor and they will not be so early. When there is no more danger of frost drop 8 to 10 seeds in hills 6 feet apart each way, covering three-quarters inch deep. As soon as plants commence to run, thin out to three best plants in a hill and cultivate till the vines cover the whole ground. If slow to fruit, pinch off the ends of the growing shoots. Ashes or air-slaked lime sifted on the young plants while the dew is on is good to keep the insects out. One ounce will plant about 60 hills, and it takes two or three lbs. on one acre.

**GREEN FLESH VARIETIES
ROCKY FORD CANTALOUPE**

It is of the Netted Gem Type, oval in shape, averaging $4\frac{1}{2}$ to 5 inches in length, of a delicious flavor, very fine and smooth grained flesh of light green color throughout when ripe. It takes its name from the district in which it has been for the past several years so extensively grown—Rocky Ford, Colorado—and from which points these melons are shipped by the car load to every station in the United States, till the name Rocky Ford has become a synonym for excellence in cantaloupes. The seed we offer is the best strain, and can be relied on for both purity and vitality.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

**SELECT RUST RESISTING "POLLOCK
STRAIN" ROCKY FORD
CANTALOUPE**

An improved strain, growing more vigorously, ripening more evenly and yielding more than the common strain. A good acquisition among melons.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$1.75. Ask for prices in quantities.

NETTED NUTMEG.

We consider this one of the best varieties in cultivation for family use. Vines hardy, productive; fruit round, slightly flattened at both ends, ribbed, covered with coarse netting; flesh very thick, green and of the highest flavor.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

EXTRA EARLY HACKENSACK

By careful selection and improvement, carried on for some years, this strain has been so developed that it produces melons with all the good qualities of the well known Hackensack Melon, but at least ten days earlier.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.

CASSABA OR LATE PERSIAN

Long, oval shaped, skin very thin and delicate, flesh extremely tender, rich, sweet, and juicy.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

KHIVA OR WINTER MUSK MELON

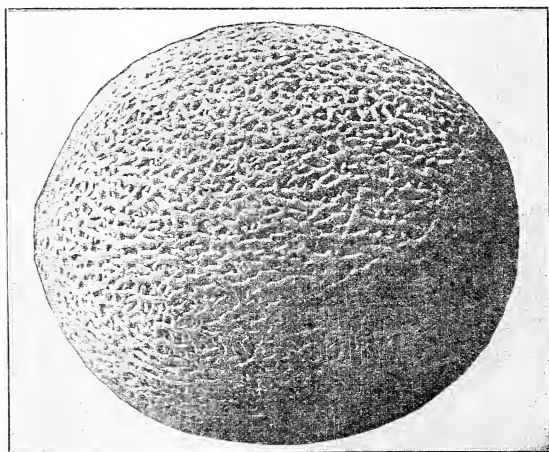
Musk melon for Christmas dinner. Yes, a delicious, sweet musk melon is a rare treat. You can have such, and from your own garden, if you plant KHIVA. It is the most delicately flavored winter-keeping melon we have ever eaten. The flesh is white and very thick, 2 or 3 inches deep. The skin is firm, with a grayish-green color slightly mottled. It is egg-shaped, and weighs 12 to 30 pounds. Not real delicious until November and later. They keep nicely until in January.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. \$1.00.

A NEW WINTER MELON—HONEY DEW MELON

This luscious new melon is pretty nearly round in shape, of a light yellow color, very firm and a good keeper. It derives its name from the peculiar flavor, which is very sweet and delicious. They sold readily on the large markets the past fall and were in great demand. They grow to about 10 inches in diameter. We advise you to try some of these the coming season.

Pkt. 5c; $\frac{1}{4}$ oz. 20c; $\frac{1}{2}$ lb. \$1.00.



Rocky Ford Melon

MUSK MELON

YELLOW FLESH VARIETIES

BANANA

An entirely distinct variety, bearing long slender, banana-like fruit. Skin creamy white and entirely free from netting. Flesh deep salmon color, thick and of good quality.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$1.75.

BURPEE'S SPICY.

Flesh of a deep rich salmon color, frequently two inches thick, stringless and luscious in flavor. Strong foliage and a very prolific bearer.

Pkt. 5c; oz. 25c; 2 oz. 40c; lb. \$2.50.

BURRELL GEM.

Seed Grown by Burrell at Rocky Ford

This new melon is the "ne plus ultra" of yellow flesh musk melons. It is another Colorado product, and, like the Rocky Ford cantaloupe, one that we can be proud of. It has a tough, thin rind, well arched ribs, covered with a closely laced and interlaced gray net-

IT PAYS TO BUY
THE BEST SEEDS
AS YOU GET
RESULTS
OUR SEEDS
ALL TESTED

ting. Shape is quite elongated, the diameter from stem to blossom end being one-third more than from top to bottom. Meat reddish orange, very thick, fine grained and spicy; vines vigorous; average weight $2\frac{1}{4}$ lbs., and notwithstanding its thin rind, is an ideal shipping melon.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25, in sealed packages.

WATERMELONS

CULTURE—This is the same as for musk melons, except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills; 3 or 4 pounds to an acre.

PHINNEY'S EARLY.

A very early variety, medium and uniform size. The skin is smooth, with uniform, narrow, white mottled and dark green stripes. Flesh light red or pink; very sweet and delicious.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

COLE'S EARLY

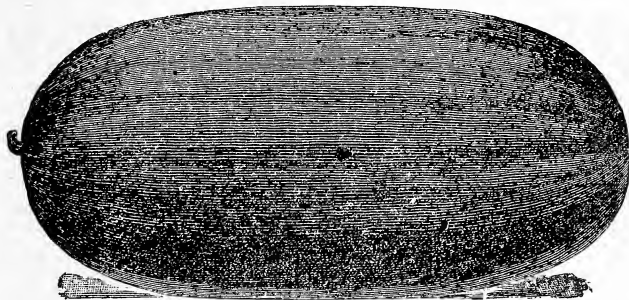
This is an extra early melon, maturing fully a week or more in advance of any other variety. Melons are oval in form, handsomely striped with light and dark green, small but of good quality and desirable for raising where seasons are short.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

GYPSY OR RATTLESNAKE.

One of the largest of all the varieties of watermelons, long, smooth, distinctly striped, with mottled and wavy dark green, regular stripes. Flesh bright scarlet and very sugary. Thin skinned, but bears carriage well.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.



Kleckley Sweet.

HALBERT HONEY WATERMELON

This melon is the same color and shape as our Improved Kleckley Sweet, but is more tender. The melons split ahead of the knife when cut. The seeds, instead of being white, are of a rather dull white with slightly brown tips. It is of excellent quality and will be ordered extensively by those who know it best, which is the best recommendation a melon can have.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

THE NEW TOM WATSON WATERMELON

This large mottled green watermelon often weighs 50 to 60 pounds and averages on good soil over 30 pounds. It has, within the past three years, won place among the very first as a market melon. The flesh is deep red and contains very few seeds, which are firmly bedded. It is the leader, taking into consideration the size, shipping and eating quality. We have very carefully selected our stock and have excellent seed to offer. Your orders will be placed where you should get excellent results if you buy this seed from us.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

STOCK SEED IMPROVED KLECKLEY SWEET WATERMELON

This seed was cut from melons averaging 35 lbs. each.

Price 5c per pkt.; 15c per oz.; 55c. $\frac{1}{4}$ lb.; \$2.00 per lb.

CUBAN QUEEN.

A large and sold variety, rind very thin and strong; skin striped with dark and light green. Vines strong, healthy and vigorous growth, very heavy cropper, flesh bright red, tender and melting, luscious, crisp, and very sugary. It is an excellent keeper and bears transit well.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 90c.

KLECKLEY'S SWEET.

The strain of this melon is listed by some as the New Hard Shell Kleckley's Sweet. The most delicious watermelon grown. Very productive and of attractive appearance.

Again we offer this strain as the finest eating melon and the thousands of customers who continue to plant it speaks volumes in

its favor. As it grows with us, it is not only the best eating melon, but a good shipper, which holds first place on many markets.

The melon is oblong, ends square, color dark green, flesh deep red, stringless, solid, and very sweet, with but few white seeds set firmly near the rind.

No. 1 SEED IMPROVED KLECKLEY SWEET WATERMELON

Saved from desirable melons grown from the same stock seed as above.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.00.

KOLB'S GEM.

Vines of medium size, but remarkably vigorous and healthy. Fruit of the largest size, round or slightly oval, marked with irregular mottled stripes of dark and very light green. Flesh bright red, extending to within half an inch of the rind; always solid, very firm, a little coarse, but sweet and tender. An excellent keeper and very good for shipping.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

MUSTARD**WHITE ENGLISH**

The leaves are light green, mild and tender when young; seed light yellow.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 50c.

OSTRICH PLUME

The leaves are long, ruffled and curved as gracefully as an ostrich plume. It is especially good as a salad and as greens is equal to spinach.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c.

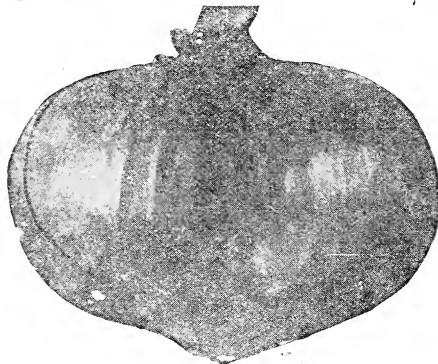
FORDHOOK CURLED MUSTARD

Beautiful dark green, finely curled plumelike leaves that are of distinctive flavor; superior to spinach as greens and is fine for salads. Fordhook Curled is vigorous and productive.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.

ONION

CULTURE—Onions thrive best in rather deep, rich, loamy soil, and unlike most vegetables, succeed well on the same ground for successive years. The ground should be deeply trenched and manured the previous autumn, and laid up in ridges during the winter to soften. As early in the spring as the ground is in working order commence operations by leveling the ground with a rake, and tread it firmly. Sow thinly in rows 14 to 15 inches apart, 4 pounds to the acre, and a quarter of an inch deep. Cover with fine soil and press down with the back of a spade or a light roller.



Red Weathersfield.

YELLOW VARIETIES.**YELLOW GLOBE DANVERS**

A very excellent variety of globular shape, flesh white and mild flavor. Skin brownish yellow. It is very productive and a good keeper.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.25. Ask for our quantity prices.

PRIZETAKER

This new handsome variety is a splendid type of the celebrated Spanish fancy onions, which are annually imported into the United States from Spain and sold by confectioners and fruiterers in our large cities at from 25 to 50 cents each, and even higher. The onions grown here quite rival the imported ones in

great beauty and enormous size, weighing in many cases from 3 to 3 $\frac{1}{2}$ pounds each. The outside skin is of a rich, yellow color, while the flesh is white, sweet and mild.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

BROWN AUSTRALIAN

It is medium size, wonderfully hard and solid, and most attractive for market, both as to form and appearance. They are extremely early in ripening. It has the reputation of keeping indefinitely, and we think from its firmness and hardness that it will keep in good condition longer than any other onion known. The color of the skin is a clear amber brown.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.00.

RED VARIETIES**LARGE RED WEATHERSFIELD**

Large, red, thick, nearly round, fine grained, pleasant flavored and productive. It ripens in September and keeps well.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

SOUTHPORT RED GLOBE

A large, globe shaped onion, with small neck, rich red color, splendid keeper and of extra fine quality. It matures a few days later than the Red Weathersfield.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.75.

RED BERMUDA—Imported Seed

The bulbs of this variety are similar in form and early ripening to the White Bermuda; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Tender if grown from seed.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00; lb. \$3.00.

WHITE VARIETIES**EXTRA EARLY BARLETTA**

(TRUE FRENCH STOCK). It is fully two or three weeks earlier than the Early White Queen, which heretofore has been the earliest variety in cultivation. They are of pure paper white color, very mild and delicate in flavor, from 1 inch to 1 $\frac{1}{2}$ inches in diameter and three-fourths of an inch in thickness.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.20; lb. \$4.50.

SOUTHPORT WHITE GLOBE

Very large, globular, pure white skin and flesh; the handsomest onion grown. Very productive and of fine quality.

Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. \$1.10; lb. \$4.00.

SILVER SKIN

Of attractive shape, silvery white skin and flesh of a most agreeable flavor. Largest of the white flat varieties.

Pkt. 5c; oz. 25c; lb. \$3.00.

LARGE WHITE LISBON

Globular shaped, large in size, pure white and very mild. Late to mature and should be sowed early. Sow in August for bunch onions in spring.

Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 60c; lb. \$2.00.

**We are Authorized Distributors for Swift & Company's
Famous "Red Steer" Fertilizers.**

Write for prices on Bag, Ton or Carload Lots

ONION SETS

Add for postage 5c for first pound, add 1c additional pound. Regular bottom sets to be placed in ground in early spring. **Yellow Bottom, 1b. 20c; 2 lbs. 35c. White Bottom, 20c lb.**



Growing Onion Seed in the Boise Valley.

OKRA OR GUMBO

CULTURE—Sow late in spring, after the ground has become warm, in drills 3 feet apart, and when plants are 3 inches high, thin out from 10 to 12 inches. They should be well matured. They can also be started in a hotbed and transplanted afterwards. The young pods can be dried for winter use. One ounce will plant 100 hills.

TALL OKRA

Grows to height of 5 feet. Pods ridged and about 6 inches long.

Price, Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

DWARF OKRA

Early, long podded and productive.
Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.

PARSLEY

CULTURE—Parsley succeeds best in rich, mellow soil. As the seeds germinate very slowly, 3 to 4 weeks elapse sometimes before it makes its appearance. It should be sown early in the spring, previously soaking the seed for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. One ounce to 150 feet of drill.

CHAMPION MOSS OR TRIPLE CUTTED PARSLEY

The leaves are finely cut and curled and of a dark green color. Extra fine for garnishing and culinary purposes.

Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

TURNIP-ROOTED OR HAMBURG

The root is the edible portion and represents a small parsnip in shape and color. Flesh white and flavored like celeriac. Foliage same as plain parsley.

Price, Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

PARSNIP

CULTURE—They do best in deep, rich, sandy soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible. Cover ½ inch deep, and press the soil firmly over the seed; give frequent cultivation, and thin the plants 6 to 8 to the foot. As they are improved by frost, a part of the crop should be left in the ground for spring use. One ounce will sow 150 feet of drill. Five pounds to one acre.

SUGAR OR HOLLOW CROWNED.

The best for table use, a vegetable of merit, easily raised, and of great productiveness. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.**

PEAS

CULTURE—Peas do best in sandy soil, not too rich or they will run up to vines. The smooth kinds can be sown as soon as the ground can be worked, but the wrinkled varieties should not be planted till it is warmer or they will rot. Sow in single or double rows from 1½ to 3 feet apart, dropping a pea every inch and covering from 2 to 3

inches deep. For a succession, sow every ten days up to July. Pea seeds are some years full of small holes caused by an insect called the pea weevil. The holes will not prevent the seeds from growing, as the germ is not destroyed. One pound to 50 feet of drill, 90 to 120 lbs. to an acre.

In ordering peas, add 5c for first pound and one cent for each additional pound for postage
Order Early



Hollow Crown

**EARLY VARIETIES
SELECT LITTLE GEM**

An improvement on the Little Gem, being larger and more productive; early in maturing; very luscious in flavor; highly recommended; try it. Height 1½ feet.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

EARLY ALASKA

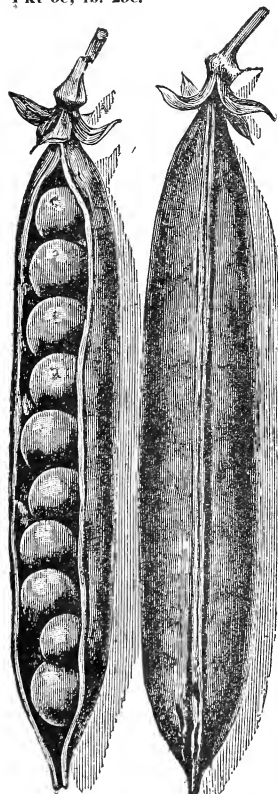
A variety of remarkable earliness and hardiness. It is a good yielder and produces pods of good size and dark green color, which are well filled with round, smooth peas of splendid flavor. Height 2 feet. The color of the dried peas is green. It ripens evenly, one picking will nearly clean off the crop.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

TOM THUMB.

Foliage heavy, bushy, growing to a height of 10 to 12 inches, very productive, and matures in less than forty days after sprouting.

Pkt. 5c; lb. 25c.



Gradus.

peas are of excellent quality, pods contain from 5 to 7 peas so closely filled that while in the edible condition they weigh nearly one-fifth more than most other sorts.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

GRAY SUGAR—Edible pods. The most desirable of all edible pod peas. The pods are flat and cooked and contain 5 to 6 peas. Height 1½ feet.

Pkt. 5c; ½ lb. 15c; lb. 25c; 10 lbs. \$2.25.

*** NOTT'S EXCELSIOR**

Robust and vigorous in growth, inclined to throw out laterals from the base of the stalk, producing in profusion long, handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific with larger pods and more peas. Height 12 inches.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

*** LITTLE MARVEL**

A Splendid New Dwarf Pea for Home or Market

The dwarf, bushy vines averaging 15 inches are loaded with firm, square-ended pods 2½ to 3 inches long, tightly filled with plump, luscious, deep green peas. "Little Marvel" is as early as "American Wonder" fully equals the superb quality of "Nott's Excelsior" and far out-yields these two popular sorts.

Pkt. 5c; lb. 30c; 10 lbs. \$2.75.

*** LAXTONIAN**

A new, early dwarf, robust, large podded pea of superior excellence, growth averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. Laxtonian is so highly recommended that you should give it a trial.

Pkt. 10c; lb. 30c.

*** PROSPERITY OR GRADUS**

This remarkable pea is not only large and of the best quality, but is quite as early as the small, round, extra early. It is hardy and may be planted as soon as the ground is fit to work in the spring, along with smooth peas. The pods are of bright green color and measure 4 inches or more in length, being as large as Telephone and equally well filled with luscious peas—8 and 10 in a pod; vine growing about 30 inches high. The peas are of first class table quality and retain their color and attractive appearance after cooking. Height 2¼ feet.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

*** AMERICAN WONDER**

• The vine grows 8 to 10 inches high, and is very prolific in pods of striking form and size. In maturity it is among the earliest of the green wrinkled sorts, ripening in about 50 days from germination. Height 10 inches.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

SECOND EARLY VARIETIES*** DWARF TELEPHONE**

Grows from 20 to 24 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods, containing from 8 to 10 peas. It is one of the best second early, and on account of its nice appearance, brings the highest price on the market. Must be sown farther apart than other peas. Height 2 feet. Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

*** TELEPHONE**

This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It is immense productive, of the finest quality, and excellent sugary flavor; vine strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with 6 to 8 large, delicious peas. Height 4½ feet. Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

*** CHAMPION OF ENGLAND.**

Superior to the common Marrowfat, which it resembles in strength of vine and general habit. Wrinkled and very sugary. Requires staking; ripens for table use in 70 days from germination. Height 5 feet.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

OTHER STANDARD VARIETIES

STRATAGEM—Seeds green, wrinkled, middle crop; one of the best peas ever sent out. Height 2 feet.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

BLISS EVERBEARING. A late variety which grows about 24 inches high and continues long in yielding; the pods contain from 5 to 7 peas so closely filled that while in the edible condition they weigh nearly one-fifth more than most other sorts.

Pkt. 5c; lb. 25c; 10 lbs. \$2.25.

GRAY SUGAR—Edible pods. The most desirable of all edible pod peas. The pods are flat and cooked and contain 5 to 6 peas. Height 1½ feet.

Pkt. 5c; ½ lb. 15c; lb. 25c; 10 lbs. \$2.25.

ORDER YOUR SEED PEAS EARLY

* Indicates Wrinkled Varieties.



Ruby King

RED CHERRY

Plant tall, bearing heavily a small round cherry shaped fruit, used largely for pickling.

Pkt. 10c; oz. 50c.

LONG RED CAYENNE

Fruit brilliant coral red; conical, from 2 to 3 inches in length, from $\frac{3}{4}$ to 1 inch in diameter, very pungent.

Pkt. 10c; oz. 50c.

RED CHILI

(True Mexican Grown Seed)

This is slightly larger in growth than the Red Cayenne, with larger fruits, three inches in length, and an inch in diameter. Bright red, very hot and fiery. Ripens early. Makes the famous Mexican chili.

Pkt. 10c; oz. 50c.

SEED POTATOES

Write us for Prices on Our Early and Late Potatoes.

SWEET POTATOES

CULTURE—Sweet potatoes should be started in a hotbed and when the ground is warm and danger of frost passed the shoots are lifted carefully and planted in rows four feet apart and two feet in the row. Ridge high, according to sub-irrigation, as high as possible. They need considerable care until well started, but afterward will grow easily. They should be cultivated quite often, moving the vines to prevent rooting at the joints. They must be harvested before frost. One bushel of seed will produce 1,800 to 2,000 sprouts.

Our Sweet Potatoes are the Edwards stock—the best in the west. All home grown stock.

To insure prompt filling of orders for sweet potatoes they must be engaged ahead. Standard weight of sweet potatoes, 50 lbs. per bushel, 125 lbs. net per barrel.

Buyers will please note that owing to the tenderness of sweet potatoes, we do not guarantee the safe arrival of sweet potato seed or

PEPPER

CULTURE—Peppers should be started in a hot bed in February and March and not planted outside until the ground is warm and there is no danger of frost. Set the plants in rows 2 feet apart and 18 inches in the row. Hoe often and keep the weeds down. One ounce produces about 1,500 plants.

LARGE SWEET SPANISH.

(Bell Shaped) A very large sort, of square form, mild, thick and suitable for filling with cabbage, etc., and for mixed pickle; less pungent than most sorts; notwithstanding its size, it is one of the earliest varieties.

Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

RUBY KING

Fruits 6 to 7 inches long by about 4 inches through; of bright red color. They are remarkably mild and pleasant in flavor and can be sliced and eaten like tomatoes. One of the best for making mangoes.

Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

CHINESE GIANT

One of the very best and largest mango peppers ever introduced. Its mammoth size, splendid shape, beautifully rich, glossy-red flesh and mild flavor all lead us to recommend it very highly. Its strong, bushy plants are heavily loaded with large fruits, which are produced throughout the season. A very unusual variety worthy of the highest recommendation.

Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

plants; however, we use all precaution possible in packing and time of shipping. Sweet potatoes should not be mailed.

YELLOW NANSEMOND. Standard variety of main crop. The best for short season localities.

10 lbs. \$1.50; 25 lbs. \$3.25.

WHITE BERMUDA. Similar to the preceding, only shorter and thicker in size.

10 lbs. \$1.50; 25 lbs. \$3.25.

RED BERMUDA. Specially adapted to Idaho. Home grown seed. Supply limited.

10 lbs. \$1.50; 25 lbs. \$3.25.

SWEET POTATO PLANTS

Plants ready from May 1 to June 15. Our long experience in this line enables us to make shipment to long distance points, with comparatively no loss. However, we do not guarantee safe arrival, as oftentimes mail is delayed or something happens beyond our control. If wanted by mail, postage should be added, 15c. for 50; 25c. for 100 plants. Will make special rates on large lots.

RED AND WHITE YAMS. 50 plants, 60c; 100, \$1.00; 1,000, \$9.50.

YELLOW JERSEY. 50 plants, 60c; 100, \$1.10, 1,000, \$9.50.

Order Early.

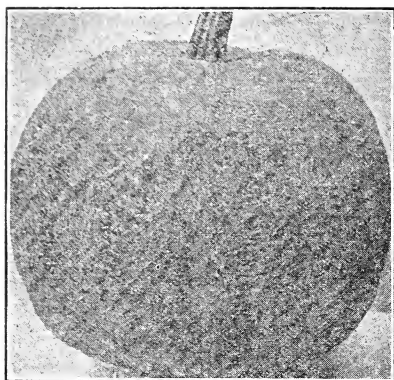
PUMPKIN

CULTURE—Pumpkins are now principally cultivated for agricultural purposes. They are usually planted in fields of corn or potatoes, but may be profitably raised in fields by themselves. Sow first of May, in hills 8 feet apart. One ounce to 30 hills; 4 lbs. to an acre.

KING OF MAMMOTHS.

The flesh and skin are of a bright golden yellow color. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety has been grown to weigh over 200 pounds.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.10.

**SUGAR OR PIE PUMPKIN**

Smaller than the field pumpkin, but finer grained, sweeter and more prolific; first rate for table or stock.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

TENNESSEE SWEET POTATO

A good variety for making pies and for other cooking purposes. It is of medium size, of a white creamy color and has an excellent flavor; good keepers.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

RADISH—French Stock**EARLY ROUND VARIETIES**

CULTURE—Sow as early in the spring as the ground can be worked, and every two weeks throughout the season for a succession of crops. A warm, sandy loam, made rich and light by some good strong manure which is thoroughly rotted, will be most likely to make them brittle and free from worms. During the summer months use summer and winter varieties, as the early kinds get pithy. Winter radishes can be wintered over as easily as any root crop and furnish an acceptable relish. One ounce to 100 feet of drill; 10 pounds to an acre. Five-pound lots in one variety, 15c less per pound, not prepaid.

CRIMSON GIANT.

This new radish is an entirely new type and differs radically from all the varieties hitherto in cultivation, insofar as its roots attain more than double the size of those of other forcing varieties without getting pithy or hollow. This giant radish develops roots 6 to 8 inches in circumference and over an ounce in weight, their pure white flesh remaining firm, crisp and mildest of flavor. It is equally well adapted to outside culture.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

BIG TOM

A large round variety, produced in great numbers. Has thick meat of fine quality. Very useful for canners' use.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 80c.

CASHAW OR CROOKNECK

A French variety, liked by many. Has yellow flesh, solid and sweet.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

MAMMOTH TOURS

A French variety, which grows to an immense size, often weighing over 100 pounds. Fruit is either long or round, but generally flattened at both ends. Skin pale green, marked with deeper bands and marbling.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.25.

CONNECTICUT FIELD OR COMMON YELLOW.

Also known as Big Tom. A large round or slightly oval shape pumpkin. Skin reddish orange color, with rich orange yellow flesh. Extensively grown for stock feeding, and generally planted with corn. Produces enormous crops. Hardest of all and good for pies. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

JAPANESE PIE

The flesh is very thick, nearly solid, the seed cavity being very small in one end of the pumpkin. Fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. They ripen early, keep well and produce largely. The seeds are peculiarly marked, and sculptured like Japanese characters.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

EARLY SCARLET TURNIP—WHITE TIPPED.

A beautiful variety, deep scarlet with white tip. It is very ornamental for table use, and is very popular as a market variety. It is of the same size and shape as the scarlet turnip variety.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

CHINESE WHITE OR "CELESTIAL"

This is the large white radish, cultivated extensively by the Chinese gardeners about San Francisco. It keeps well in winter and is usually crisp and not strong. Our seed is direct from California.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

STUTTGART.

A large winter variety, splendid keeper, brittle, and fine eating.

Pkt. 5c; oz. 15c; lb. 80c.

ROUND BLACK SPANISH

Of similar nature and quality to the long, differing in shape. It is the favorite winter radish for this part of the country.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.



White Icicle

FRENCH BREAKFAST

A medium sized radish, olive shaped, with small top of quick growth; very crisp and tender; of beautiful scarlet color, except near the root, which is pure white.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

EARLY SCARLET TURNIP

A small, round, red, turnip-shaped radish, with a small top and of very quick growth.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

LONG BRIGHT SCARLET

Extra early, the roots being fitted for use about 25 days after sowing; very bright color, quite unique, being the most fiery scarlet in any kind of radishes. It is very slightly tipped with white, and the flesh is crisp and tender.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

WHITE ICICLE.

Entirely distinct, long, slender, pure white. Very early, much the earliest and finest long white. It is ready for use fully as early as Long Island Short Top, with less foliage, rendering it most desirable for forcing. In the open ground the roots continue brittle, crisp and mild, until they are fully as large as those of Long Bright Scarlet. The Icicle is, perhaps, superior to the finest long red ones. Roots pure snowy white, 4 inches in length and $\frac{1}{2}$ inch in diameter; they retain their crispness and mild flavor until fully 6 inches long and an inch in diameter.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

CHINA ROSE

It is of a half long shape, pink color, flesh solid. It has not that strong flavor peculiar to the Black Spanish and keeps equally well. It should be sown during August.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 80c.

RHUBARB

CULTURE—Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to 12 inches apart. The following spring transplant into place; set the plants from 4 to 5 feet each way. One ounce produces from 400 to 500 plants.

LINNAEUS. Very early and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.50.

VICTORIA. Very large, later than Linnaeus. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.50.

RHUBARB ROOTS. Above two varieties, 3 for 25c; 6 for 50c; 12 for \$1.00; prepaid; if not prepaid, 50c per dozen; \$3.00 per 100.

SPINACH

CULTURE—It is one of the most easily managed of all vegetables, requiring little culture. The main crop is sown in September and it is sometimes covered with straw in exposed places during winter, which prevents it from being cut with the frost. For summer use it may be sown at intervals of two or three weeks from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre. Five pounds or more of one variety, not prepaid, at 10c less per pound.

ROUND SUMMER

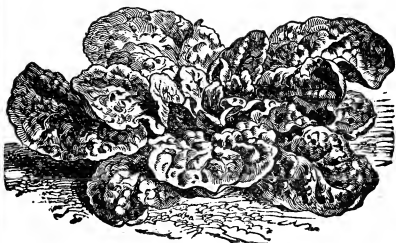
This variety is generally preferred for early spring sowing, and is popular with the market gardeners. Leaves large, thick and fleshy. Not quite so hardy as the prickly, but stands winter well.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 80c.

LONG STANDING

An improved strain of excellent merit, having all the good qualities of the ordinary sorts, what renders it especially desirable is the fact that it is much later in going to seed than any other variety.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 80c.



Round Summer Spinach

NEW ZEALAND SPINACH.

A good summer variety, as when once established by early planting resists heat. Leaves soft, thick and fleshy. Differs in appearance from other varieties but is prepared in the same manner.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.00.

AMERICAN CURLED SAVOY LEAVED SPINACH

A most valuable variety. In appearance the leaf is wrinkled in the same way peculiar to Savoy Cabbage, from whence the name. It produces nearly twice the bulk of crop as the ordinary sort, is fully as hardy, and in all respects equal. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 80c.**

Salsify or Oyster Plant

CULTURE—The Oyster Plant succeeds best in light, well enriched, mellow soil, which, previous to sowing the seeds, should be well stirred to a depth of 18 inches. Sow early in the spring, in drills 15 inches apart; cover the seed with fine soil 1 inch deep. One ounce for 60 feet of drill; 7 pounds to one acre.

MAMMOTH SANDWICH ISLAND

This new Salsify, recently introduced from the Sandwich Islands, grows fully double the size of the common variety, and is of superior quality. It is pure white in color and is invaluable to market gardeners. **Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50.**

SQUASH

CULTURE—Sow about the middle of spring, in hills, the early sort about 4 feet apart, and the late varieties 6 to 8 feet. Drop enough seeds to be thinned to 3 plants in a hill. The hills should be highly manured and prepared in a similar manner as those for cucumbers.

One oz. to 40 hills for small sorts; large varieties, 1 oz. for 30 hills. Five pounds or more of one variety, not prepaid, at 15c less per pound; 4 or 5 pounds to an acre.

EARLY WHITE BUSH

The earliest to mature; very productive; light cream colored. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.**

MAMMOTH SUMMER CROOKNECK

It is the best summer squash, and for these reasons: It is twice as large as the ordinary form of Crookneck, far more variety, and several days earlier.

Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

VEGETABLE MARROW

A favorite English sort, early, skin greenish-white; flesh white, soft and rich flavor, quite distinct from other sorts.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

GOLDEN HUBBARD

This is a very distinct sort of the shape and general character of the Hubbard, but smaller, earlier to mature, and of rich, orange-red color, instead of the olive-green of the old Hubbard. One of the best fall and winter varieties.

Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.35.

FORDHOOK

One of the hardest, flesh thick, small seed cavity, and a good keeper. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.**

SIBLEYS

One of the best for shipping, owing to the hardness of the shell. Flesh is solid and thick, of a bright orange color and of choice quality. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.**

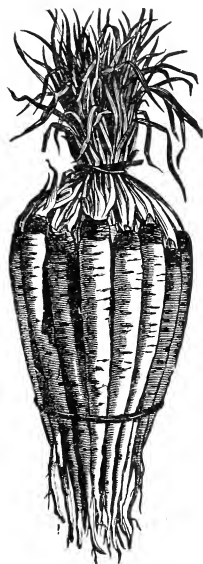
ESSEX HYBRID

An improved American Turban, having the color, shape and superior qualities of the Turban with the dry and hard shell of the Hubbard.

Pkt. 5c; oz. 15c.

MAMMOTH CHILI

Size enormous, often weighing 100 to 200 lbs., very profitable for stock feeding, especially where root crops are grown extensively. Remarkably productive. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.**



Salsify



Warty Hubbard Squash

"THE DELICIOUS SQUASH"

The squashes, weighing from 5 to 10 lbs., vary both in color and form, but are uniformly delicious in flavor and splendid winter keepers. The dark orange flesh is very thick and fine grained.

Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$2.00.

WARTY HUBBARD

This is one of the best in quality of all winter sorts. The flesh is dry and sweet. Shell very dark green and hard, which insures long keeping qualities. It is considered an improvement over the old type Hubbard on account of its warted skin.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

UTAH FIELD

This is the "Jumbo" of the squash family. It is an extra large fruited sort, quite distinct in form and appearance. The fruits frequently attain more than 100 pounds in weight. Flesh firm and solid, of beautiful orange yellow, and excellent quality. Decidedly the best field variety grown.

Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

CHALK'S EARLY JEWEL TOMATO

About ten days later than Sparks' Earliana; or more robust growth; the foliage does not blight. Fruits good size, very solid and deep through. Color bright scarlet. Ripens right up to the stem without cracking. The flesh is bright scarlet, very solid, with comparatively few seeds, and of fine, sweet flavor. Skin thin, a good shipper.

Pkt. 5c; ¼ oz. 15c; oz. 45c; ¼ lb. \$1.00; lb. \$4.00.



Chalk's Early Jewel.

SELECTED STRAIN BEAUTY

Grown especially for us, and under our personal care, from specimens selected and improved. It is the smoothest and best of the large purple sorts. Nothing better and more worthy to carry our trade mark.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.
as cigar stock. **Pkt. 10c; oz. 30c.**

TOMATO

CULTURE—When the plants are to be raised, the seed should be sown in March, in a hotbed or greenhouse; or they may be sown in a box and kept inside the window of a room where the night temperature is not less than 65 degrees. The plants should be thinned out in the bed so as to give them plenty of room, or they will be weak and poor. They should also be set in the open ground from 4 to 5 feet apart each way. Our stock of tomatoes is grown by several of the best growers, among them Livingston. One ounce produces about 1,500 plants.

EARLIEST OF ALL

A large, bright red, extremely early variety, especially suitable for truckers and market gardeners. Try this for your early variety.

Pkt. 5c; oz. 40c; ¼ lb. \$1.50.

SPARKS' EARLIANA

Produces fruit earlier than any other variety. The quality is good, of large, uniform size, red color. It is very solid, being a shy seeder. Every gardener will make good profit on early tomatoes when raising Earliana.

Pkt. 5c; oz. 40c; ¼ lb. \$1.00; lb. \$3.50.

DWARF CHAMPION

This tomato owes its wide popularity to stiff, vigorous, upright growth, with fruit well above the soil, and to the earliness with which it reaches maturity. In color the fruit is purplish-pink, and it is always round, smooth and symmetrical. Size medium, table quality superior; a good shipper. **Pkt. 5c; ¼ oz. 15c; oz. 45c; ¼ lb. \$1.00; lb. \$4.00.**

JUNE PINK

This new tomato resembles Earliana except in color, which is a fine pink color. It is the earliest pink tomato grown, and is from 2½ inches to 3 inches in diameter. The vines are very robust, almost blight-proof, and very heavy bearers, being the first on the market, and lasts till frost. **Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.**

SELECTED STRAIN STONE

Grown by the same grower who grows our Selected Strain Beauty, with same care. It ripens for main crops; is very large, and bright scarlet color; very smooth, ripening evenly to the stem without a crack, exceedingly solid and firm fleshed, as the name indicates; it is an excellent shipper, quality the very best; fine for canning, a good keeper, not subject to rot.

Pkt. 5c; oz. 35c; ¼ lb. 90c; lb. \$3.50.

PONDEROSA—Select Stock.

A splendid variety of magnificent size, often attaining a circumference of 18 inches and weighing from 2 to 4 pounds. It is perfect in form, free from wrinkles, does not crack, smooth as glass and is solid and meaty as beefsteak. Ponderosa is of delicious flavor, rich when sliced, and splendid for canning. The plant is luxuriant, healthy, independent of drought; free from blight, and a continuous and prolific bearer.

Pkt. 5c; oz. 45c; ¼ lb. \$1.50; lb. \$5, postpaid.

TOMATOES

OTHER STANDARD VARIETIES

GOLDEN QUEEN. The best large yellow variety.

YELLOW PLUM. Color bright yellow, excellent for preserving.

YELLOW PEAR. Same as above, except shape.

HUSK TOMATO, or YELLOW GROUND CHERRY. This is liked by many for preserves and eating from the hand. Pkt. 5c; oz. 25c; ¼ lb. 55c; lb. \$3.50.

TOBACCO

CULTURE—Tobacco in this part of the country should be started in hotbed in March and treated the same as tomato.

HAVANA. Pure Cuban grown seed. When grown in this country, commands a high price as cigar stock. Pkt. 10c; oz. 40c; lb. 3.00.

CONNECTICUT SEED LEAF. Best adapted to the climate of the middle and northern states, as it is more hardy and endures the cold better than the tender varieties grown in the south.

Pkt. 10c; oz. 40c.

TURNIP

CULTURE—Turnips do best in highly enriched, light, sandy or gravel soil. Commence sowing early varieties in April in drills from 12 to 15 inches apart, and thin out early to 6 or 9 inches in the rows. For a succession, sow at intervals of a fortnight until the last week in July, from which time until the end of August sowing may be done for the main crop. One ounce will sow 150 feet of drill; 1½ pounds to an acre.

Five lbs. of any variety not prepaid at 15c less per pound.

EARLY VARIETIES.

EXTRA EARLY WHITE MILAN

The earliest in cultivation. The bulb is very flat, of medium size, quite smooth. It is a pure white, thus making it especially desirable for forcing.

Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.00.

PURPLE TOP—STRAP LEAVED

The standard of this part of the country. Superior for early or late planting. Round, flat, good sized, small top with but few leaves; flesh very fine grained, flavor good.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

EARLY WHITE EGG

A quick growing, egg-shaped, perfectly smooth, pure white variety, growing half out of the ground with small top and rough leaves. Its smooth, white skin and quick growth make it peculiarly desirable for market purposes. The flesh is very sweet, firm, and mild, never having the rank, strong taste of some varieties.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

EARLY WHITE FLAT BUTCH—Strap Leaved
This is a popular early turnip for table use.

For autumn and early winter use, this and the purple top are highly popular.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

AMBER GLOBE OR STRAP LEAVED

One of the best varieties for table use or for a field crop for stock. Flesh yellow, fine grained and sweet, color of skin yellow with green top. Hardy, keeps well, a good cropper, grows to a very large size.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

EXTRA EARLY PURPLE TOP MILAN

A bright purple top, leaves few, short and light of color, growing very compact, and making an exceedingly small and neat top. The pure white flesh is of the choicest quality, hard, solid and fine-grained. It is an excellent keeper.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

GOLDEN BALL

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used by market gardeners.

Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.25.

PURPLE TOP WHITE GLOBE

Large size, rapid growth, unusually attractive and admired by all.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

YELLOW PURPLE TOP RUTA BAGA

Hardy and productive, flesh yellow, of solid texture, sweet and well flavored; shape slightly oblong, terminating abruptly with no side or bottom roots; color deep purple above and bright yellow under the ground; leaves small light green, with little or no neck; the most perfect in form, the richest in flavor, and the very best in every respect.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

YELLOW ABERDEEN

Round, medium size, light yellow. Produces a large crop, is hardy and keeps well; flesh very firm but tender and sweet. A great favorite with the dairymen.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

WHITE SWEET RUSSIAN

Flesh white, hard and firm; partaking much of the nature of a ruta бага. Must be sown much earlier than the flat turnip. In the autumn and early winter it is apt to be hard, but mellows like an apple by keeping.

Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

MONARCH OR TANKARD

This is a yellow sort, having very large tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

HERBS—Aromatic, Medicinal and Pot.

Herbs, properly cared for, form an important part of the Kitchen Garden.

| | |
|--|---|
| ANISE—An annual cultivated for its leaves, which have a fragrant, agreeable scent and a pleasant taste | Pkt. 5c; oz. 10c |
| BALM—A hardy perennial of aromatic taste and a grateful, fragrant smell | Pkt. 5c; oz. 25c |
| BORAGE—Annual; in Germany the leaves are cut and dried for cucumber salad | Pkt. 5c; oz. 15c |
| CARAWAY—The seeds are used for flavoring | Pkt. 5c; oz. 10c |
| CATNIP or CATMINT—A great favorite among medical herbs | Pkt. 5c; oz. 35c |
| CHEERFUL—Annual; used for soups and salads | Pkt. 5c; oz. 15c |
| CORIANDER—Annual; its tender leaves are sometimes used for soups and salads | Pkt. 5c; oz. 10c |
| DANDELION—Perennial; cultivated for spring greens; an excellent tonic | Pkt. 5c; oz. 10c |
| HOP—A popular variety of commerce | Pkt. 10c |
| HOREHOUND—Perennial; used as a tonic | Pkt. 5c; oz. 20c |
| HYSSOP—A perennial with aromatic flowers and a pungent flavor | Pkt. 5c; oz. 20c |
| LAVERENDER—Perennial; cultivated for its fragrant flowers and aromatic leaves | Pkt. 5c; oz. 15c |
| ROSEMARY—The tops only are used as a medicine | Pkt. 5c; oz. 40c |
| SAGE—Perennial; tea made from the leaves is an excellent means of producing sweat | Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50 |
| SAFFRON—Annual; the dried flowers are used for medical purposes | Pkt. 5c; oz. 20c |
| SAVORY—Annual; leaves are used for culinary purposes | Pkt. 5c; oz. 20c |
| SORREL—Broad-leaves; used in soups and salads and sometimes cooked like spinach | Pkt. 5c; oz. 20c |
| SWEET BASIL—Annual; the leaves are used for highly seasoned dishes | Pkt. 5c; oz. 15c |
| SWEET FENNEL—Perennial; tea made from the seeds is an excellent remedy in case of colic and stomach complaints | Pkt. 5c; oz. 10c |
| SWEET MARJORAM—Biennial; the leaves are used in soups; the seeds in the manufacture of sausage | Pkt. 5c; oz. 15c |
| TARROGON (Tansy)—Perennial; a very popular French herb for making Tarrogon vinegar | Pkt. 10c |
| EWEEET THYME—Perennial. Thyme tea is an excellent remedy for nervous headache | Pkt. 5c |
| WORMWOOD—Perennial; used for medical purposes. Beneficial to poultry and should be planted in every poultry yard | Pkt. 5c; oz. 10c |

VEGETABLE PLANTS

We are prepared to furnish plants, in any quantity, of the varieties described below, all Idaho grown, especially for us. The plants are grown from select seed and you can depend on the plants being true to name. We exercise great care to produce strong, vigorous plants and see that they are packed properly for transportation. We advise sending by express, and the following prices DO NOT INCLUDE POSTAGE. If wanted by mail, add 8c per dozen, or 30c per 100, postage.

| | |
|---|-----------------------|
| EARLY CABBAGE—From seed bed. Early Winnigstadt, Jersey Wakefield, ready May 1 | Doz. 20c; 100, \$1.00 |
| LATE CABBAGE—Seed bed; Copenhagen, Flat Dutch, Danish Ball Head ready June 1 | Doz. 20c; 100, \$1.00 |
| EARLY SNOWBALL CAULIFLOWER—Ready in May | Doz. 30c; 100, \$1.50 |
| LATE CAULIFLOWER—Snowball, ready in June | Doz. 25c; 100, \$1.25 |
| TOMATOES—Earliana, Chalk's Early Jewel, Stone and Beauty, ready May 1st from seed bed | Doz. 20c; 100, \$1.00 |
| PEPPERS—Ruby King, Sweet Spanish, seed bed, ready May 15th | Doz. 30c; 100, \$1.50 |
| EGG PLANT—New York Improved, seed bed, ready May 15th | Doz. 50c; 100, \$3.00 |
| EARLY CELERY—Golden Self-Blanching, ready May 10th | Doz. 20c; 100, \$1.25 |
| LATE CELERY—Giant Pascal, Golden Self-Blanching, ready June 25th | Doz. 20c; 100, \$1.25 |
| SWEET POTATOES—Yellow Jersey, Red and White Yams, ready May 15 | Doz. 20c; 100, \$1.10 |

ASK US FOR SPECIAL PRICES IN LARGE QUANTITIES.

PROGRESSIVE EVERBEARING STRAWBERRY PLANTS.

Kellogg Strain.

Rich red color, firm berry, and of delicious flavor. Do not allow plants to bear fruit from first blossoms.

25 plants postpaid, 60c; 100 plants postpaid, \$1.75. By express, \$12.50 per thousand.

SUMMER BEDDING PLANTS

We are growing our own Summer Bedding Plants this season, of the following varieties, same to be ready for shipment about May 1st. PRICES QUOTED BELOW DO NOT INCLUDE POSTAGE. Add 8c per dozen or 30c per 100 for postage if wanted by mail.

| | |
|---|----------------------|
| FANSIES—Very choice varieties, extra large | Per doz., 50c to 75c |
| ASTERS—Crego Giant, mixed colors | Per doz., 40c |
| Solid colors: White, Pink, Purple, Lavender | Per doz., 50c |
| SALVIA (Scarlet Sage)—One of the most beautiful flowering plants; flowers flaming scarlet color | Per doz., 75c |
| VERBENA—Mixed colors | Per doz., 50c |

FLOWER SEEDS

We feel sure you will have very satisfactory results from the planting of these seeds. Directions for planting printed on each packet. All flower seeds sent prepaid on receipt of price.

AGERATUM—Mexicanum

Flower light blue or lavender, very desirable for bouquets, furnishing a continual bloom through the summer. Plants flower well in the house in winter, when potted in the fall before frost. Height 12 inches. Hardy annual. Pkt. 5c.

ALYSSUM—Sweet

A favorite flower for bouquets; white, very

fragrant, and producing a succession of blooms through the summer until after severe frosts. Always wanted when a bouquet is made. Height 1 foot, hardy annual. Dwarf White, Pkt. 5c. Saxatile Yellow, Pkt. 5c.

ANTIRRHINUM—Snapdragon

One of the most desirable flowers in the catalog for its variety of colors and succession of blooms, lasting from July until severe frost. The plants should be covered with fine boughs or other light material in November, and they usually survive and bloom finely the second year. Height 1 foot. Perennial. Dwarf, mixed colors. Pkt. 10c.

AQUILEGIA COERULEA**True Rocky Mountain Columbine**

Colorado's emblematic flower. Needs to be seen to be appreciated. The flower petals lay open more than the common columbine. Color is light blue, in very high altitudes nearly white. We are headquarters for this seed and furnish the true *Aquilegia Coerulea*. **Pkt. 10c**

ASTERS—Crego's Giant

These are the most beautiful of the newer types of American branching asters. They unite the elegant grace of the European Comet with the robust vigor and long stems of the American branching varieties. The flowers are of immense size, usually measuring from 4 to 5 inches in diameter and borne on stems 12 inches or more in length, while their lasting qualities when cut are unsurpassed. The petals of the refined and beautiful flowers are most attractively curled and twisted, resembling choice Japanese *Chrysanthemums*. The plants are of strong branching growth and usually attain a height of from 2 to 2½ feet. The delightful flowers are borne in abundance from late August until the end of September. All colors. **Mixed, Pkt. 10c.**

TRUFFAUTS' PEONY-FLOWERED PERFECTION

Very double, large and beautiful flowers, with incurved petals; height 18 inches to 2 feet. **Mixed. Per pkt. 10c.**

BACHELOR'S BUTTON—Centurea Cyanus

A showy annual, of easy culture, flowering freely with great variety of colors, in common garden soil. Height 2 feet. **Pkt. 5c.**

FREE FLOWERING BEGONIA

The newer form of Begonias are among the most brilliant, beautiful of flowering plants. They can be grown from seed which should be sown in February or March in pots on a surface of fine soil. Cover pot with glass and keep in warm but shaded place, taking care not to wash out the small seeds or young plants in watering. The plants will give an abundance of bloom the first year. **Mixed. Pkt. 10c.**

BALSAM

The Balsam has been so much improved by cultivation as to be scarcely recognized. The blossoms are double, though semi-double and single ones are very certain to appear, and such plants should be removed. Require a deep rich soil, good culture and plenty of space to grow to perfection. Height 2 feet. Tender annual. **Finest Mixed, Pkt. 5c.**

BEANS—Various Colors

Ornamental climbers for porch and trellis. Scarlet Runner, White Runner. **Pkt. 10c.**

CALENDULA—Officials.

This splendid variety has large flowers beautifully imbricated, resembling in size and form the finest Aster. Each petal, of pale straw color, is regularly marked with a strip of bright, deep orange. Blooms profusely with a succession of flowers from July till frost. Is one of the best annuals for a garden display. Height, 18 inches. **Pkt. 10c.**

CANDYTUFT

All the colors of Candytuft are desirable for bouquets, especially the white, for its form, fragrance and profusion of bloom. Height 1 foot. Hardy annual. **Mixed Colors. Pkt. 5c.**

CALLIOPSIS

A very showy border plant, producing flowers nearly every shade of yellow, orange, crimson, red and brown. If the seed pods are removed as fast as they appear, the plant will remain in bloom much longer. Height 2 feet. Hardy annual. **Mixed colors. Pkt. 10c.**

CALIFORNIA POPPY—Eschscholtzia

A flower attractive in foliage, bud and blossom. One of the most brilliant flowers grown. Plants procumbent, forming dense, bushy masses with a succession of flowers from July until severe frosts. When grown with Dwarf *Convolvulus*, contrasts finely with dark blue. Height 1 foot. Half hardy annual.

WHITE. Pkt. 10c. YELLOW. Pkt. 10c.
MIXED. Pkt. 10c.

CAMPANULA—Bell Flower

Campanulas embrace a great many beautiful perennials, like the Canterbury Bell, and also a number of annuals of great value for forming masses, as they are neat in habit, hardy and free bloomers. Height 1 foot.

MEDIA (Single Bell Flower, mixed colors.) Pkt. 10c.

CARNATION

This beautiful and well known flower produces a finer bloom when grown from seed than when grown from cuttings taken from old plants. Our seed will produce a fine variety of colors with flowers of good size and substance. Height 18 inches. Half hardy perennial.

GERMAN. Mixed colors. Pkt. 10c.

MARGUERITE. The most deservedly popular carnation with the amateur, as they begin flowering within a few weeks from the time of sowing. The strain offered is of extra fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed high-scented flowers. **Pkt. 10c.**

CANNA

Stately plants with foliage of excellent growth, presenting a luxuriant and tropical appearance, and much employed in ornamental planting. When planted in clumps of 4 or 5 contrasting colors, are very effective. Height 3 feet. The seeds should be cut at one of the ends about 1-16th inch and then soaked in warm water for 24 hours. Tender perennial. **Mixed colors. Pkt. 10c.**

CASTOR BEAN—Ricinus

A luxuriant expansive foliage plant of tropical appearance that should have a place in every garden affording the requisite space. The stalks of the plant are brownish red; the leaves are very large, palmate, and strikingly elegant. Height 6 to 10 feet. Tender annual. **ZANZIBARIENSIS.** New Zanzibar giant, a large leaved variety. **Pkt. 10c.**

CENTAUREA MARGUERITE

A sweet scented *Centaurea*, about as large as a medium sized carnation. It is a sprout from *Centaurea Odorata*, and the plants are about 18 inches high, the flowers are beautifully lacinated and produced on long stems. The beauty of this easily cultivated annual is certain to excite admiration.

MIXED COLORS. Pkt. 10c.

EARLY ANNUAL CHRYSANTHEMUM.

The glorious and showy autumn blooming *Chrysanthemums*, which are now so much admired and cultivated, have their relatives among the summer annuals which are easily raised from seed. The plants can be raised by sowing the seed early in the house or frame, and planting them out when the weather is favorable, or the seed can be sown where the plant is to stand.

MIXED. Pkt. 10c.

CONVOLVULUS MAJOR—Tall Morning Glory

This well known annual is one of the most popular climbers. Of rapid growth, soon covering a fence or trellis with the abundant foliage and bright flowers. A great variety of colors and shades. Height 10 feet. Hardy annual. **Mixed Colors. Pkt. 5c.**

IMPERIAL JAPANESE MORNING GLORY

The flowers are of immense size and strong colors. Soak seed before planting.

MIXED COLORS. Pkt. 5c.

COSMOS

Are unquestionably very handsome flowers, and there is but one objection to their giving general satisfaction, and that is their late flowering habit. The plants require a very long time to develop, and this brings their flowering season late in the fall. The objection will not be found in our early flowering strain. Seed sown in the open ground in the beginning of May will produce blooming plants late in August, and they will continue to flower late in the fall. We know of no single flower that is as handsome as the *Cosmos*, while for keeping qualities when cut they are unexcelled. Early Flowering.

MIXED. Pkt. 10c.

COXCOMB—*Celocia Cristata*

A highly ornamental plant, producing crested heads of flowers, somewhat resembling a cock's combs. There are many colors and shapes, but the scarlet and crimson ones are the most brilliant and rich. Height 1 to 3 ft. Tender annual. **Dwarf Mixed Colors Pkt. 10c.**

CYPRESS VINE—*Ipomoea Quamoclit*

One of the most beautiful climbers; fine, delicate cut foliage, dotted with small, scarlet star-shaped flowers. For covering pillars, trellis work, etc., is not surpassed for grace and beauty. Height 8 feet. Tender annual. **Mixed Colors. Pkt. 10c.**

DAHLIA

This exceedingly beautiful genus comprises an almost endless number of varieties, all more or less showy in the flower garden in autumn, when most other flowers have faded. They are of easy cultivation, growing freely in almost any soil, from seed sown in the spring. If sowed early in the house and transplanted in June will bloom the first year. Height 4 to 5 feet. Half hardy perennial. **Pkt. 10c.**

DAISY—*Bellis Perennis*

Charming little plants for edging and borders. The flowers are quilled and flat-petaled, with white, pink, red and variegated. Not all will come double from the seed, and the single ones should be pulled out. Height, 6 inches. Tender perennial. **Longfellow, double pink, Pkt. 10c.**

THE AFRICAN "GOLDEN ORANGE" DAISY

This extremely showy annual has become a great favorite everywhere on account of its very easy culture and most beautiful flowers, which are quite unique in color and immediately attract attention. The hardy plants, of neat branching habits, grow only 12 to 15 inches high and are exceedingly profuse in flowering. Its Marguerite-like blossoms, $2\frac{1}{2}$ to $2\frac{3}{4}$ inches in diameter, are of a peculiarly rich glossy orange-gold. Its strikingly brilliant coloring is rendered even more conspicuous by the dark-colored disk surrounded by a black zone. It bears its showy flowers very early after being planted out in the open ground in sunny situations, and continues to bloom abundantly during the entire summer. A bed in full bloom is truly a magnificent sight. **Pkt. (100 seeds) 10c.**

FEVERFEW—*Matricaria*

A free-flowering, half-hardy perennial plant growing 13 inches in height. Seed sown early in the spring in the open ground will produce flowers by fall. The plant throws up numerous stems, terminating in clusters of very double, pure white flowers, $\frac{3}{4}$ -inch in diameter. These are desirable for cut flowers. Plants bloom freely when grown in pots in a cool room. **Pkt. 10c.**

FORGET-ME-NOT—*Myosotis Alpestris*

This beautiful little flower is too well known to require description or recommendation. The delicate blue flowers appear all summer. Height 6 inches. Hardy perennial. **Pkt. 10c.**

FOUR-O'CLOCK—*Marvel of Peru*

A handsome plant, making an attractive display of its many colored flowers from the middle of July till frost. The blossoms are marbled and spotted in the most diversified manner, the same plant producing different colors; some branches will grow flowers of a single color only, while others will have striped or parti-colored. The leading colors are red, white and yellow, with stripes and variegations of all three. Height, 2 feet. Hardy annual. **Mixed, Pkt. 5c.**

GAILLARDIA—*Blanket Flower*

The large brilliant flowers are borne singly on long stems. They come into bloom quite early and continue until cut down by heavy frosts.

GERANIUM—*Zonale*

Probably the geranium is better known and more universally admired than any other plant grown. The constant succession and durability of bloom till frost comes, the brilliancy of the scarlet and other colors, and the exquisite markings of the leaves of some of the varieties, render them very desirable for pot culture or bedding. No garden seems complete without a bed of them, and in every collection of conservatory or parlor plants we are sure to find the geranium. Propagation from seed is the only way to obtain new varieties. Height 1 and 2 feet. Half hardy perennial. **Mixed, Pkt. 25c.**

GYSOPHILA.

Small fragrant flowers, borne on long, feathery stems. No flower adds more light and grace to a bouquet than this, and when once grown will be found indispensable. In bloom through the summer from the first of July till frost. Although not belonging to the immortal class, the flowers dry finely and are very desirable for winter bouquets. Height 1 foot.

ELEGANS — (Angel's Breath). Delicate pink. **Pkt. 10c.**

PANICULATA—(Baby's Breath) Pure white perennial. **Pkt. 10c.**

GOURDS

A great variety of curiously formed and marked fruits, vines are of rapid growth and with luxuriant foliage. Adapted for covering screens, arbors, etc. Height 10 to 12 feet. All kinds. **Mixed, Pkt. 5c.**

HELIOTROPE.

Everyone loves the delicate fragrance and beauty of the Heliotrope, but few know that it can be raised from the seed as easily as the Verbenas. To insure a long period of bloom seed should be sown early indoors. **Lemolnes Giant**, superb mixed, of our own growing. **Pkt. 10c.**

HYACINTH BEAN—*Burpee's Daylight*

The vines grow quickly to a height of 8 to 10 feet, and blossom profusely from base to summit, the large spikes of pure white flowers standing out boldly from the rich green foliage. As the flowers drop from the long spikes they are succeeded by broad, velvety, showy white pods which retain their purity and freshness of color for a long time.

Per Pkt. 10c.

HOLLYHOCK

A great variety of brilliant colors, combining richness and delicacy in a remarkable degree. Flowers large and densely double, remaining a long time in bloom. It is one of the best and most ornamental of the perennials. Height 5 feet. **Pkt. 10c.**

JAPANESE HOP—*Humulus Japonicus*

A rapid growing, perfectly hardy annual climber of the hop family, of the easiest culture and indispensable for covering unsightly objects or verandas, trellises, etc. Sows itself after the first year. Variegated leaves. **Pkt. 10c.**

KOCHIA TRICOPHYLLA

This highly ornamental annual plant grows quickly from seed in the open ground when the trees are coming out in leaf, and the plants are always of rounded or globe-like form. The plants branch freely, and the stems are clothed with slender, light green leaves. Early in the fall the ends of the shoots are thickly set with small, bright scarlet flowers—the bushy plants resembling balls of fire. The plants are most attractive either planted singly to show the round ball-like form on all sides, or grown in continuous rows. Sow seed early in spring when trees are out in leaf. In order that plants may reach full development allow them to stand about 30 inches apart in the row. **Pkt. 10c.**

PICTA LORENZIANA—New Double *Galliardia*. Large, gay colored double flowers, useful for cutting. The colors embrace sulphur, golden yellow, orange and claret.

Pkt. 10c.

LARKSPUR, PERENNIAL—*Delphinium*

A very attractive hardy plant for corners of yard, also center of flower beds. We furnish seed of assorted colors. **Blue, Pkt. 10c.**

LANTANA—French Hybrids

Rapid growing plants, the flowers are borne in Verbena-like heads, embracing every known shade of pink, purple, orange and white. Half hardy perennial. Height 3 feet. **Mixed, Pkt. 10c.**

LINARIA—*Kenilworth Ivy*.

This grows readily from seed and is one of the finest plants for edges of vases or hanging baskets, as well as for pot-plants in the house, or for planting out on rock-work. **Pkt. 10c.**

LOBELIA—Crystal Palace

An elegant and useful class of plants of dwarf, compact growth, bearing a profusion of delicate blue flowers. In bloom through the summer and autumn. Make a neat and effective edging for geraniums and the ornamental leaved plants. Pretty for baskets and vases and piazza decorations. Height 6 inches. Half hardy annual. **Pkt. 10c.**

MAKINO

A showy plant of compact symmetrical foliage and a profusion of flowers of brilliant shades of yellow, finely variegated and striped with dark rich colors of maroon and brown. Flowers are about an inch in diameter, full double to center and cover the plant profusely. Height 1 foot. Half hardy annual. **French Double Dwarf, Pkt. 5c.**

AFRICAN ORANGE BALL

Enormous double flowers of intense rich orange. Finest grown. **Pkt. 10c.**

SWEET MIGNONETTES

This new blend includes the right proportion of seed of Bismarck, Goliath, Red Giant and Pearl and will delight thousands.

Pkt. 10c.

MOURNING BRIDE—*Scabiosa*

One of the best flowers for bouquets, plants of dwarf habit and compact, the flowers are borne on long, wiry stems. A great variety of colors, from white to very dark purple—almost black. In bloom from August until after severe frosts. Height 18 inches. Hardy annual. **Dwarf Double Mixed, Pkt. 10c.**

MOMORDICA CHARANTA—*Balsam Pear*

Very curious climbing plant with ornamental foliage; fruit golden yellow, warted, and when ripe opens, showing the seed and its brilliant carmine interior. Annual. Height 10 feet. **Pkt. 10c.**

MOONFLOWER—New Crossbred

Of great value for the north, as it is in full bloom one month before the white-seeded. The flowers are 4 to 6 inches across, and very numerous. The foliage is of three distinct types. **Per pkt. 10c.**

TALL NASTURTIUMS

This well known annual is one of the best for trellis and arbor decorations, flowers of a great variety of rich colors, striped and spotted with different shades. It excels for vases and baskets, also does finely when grown in beds without trellis support; produces an abundance of flowers from the first of July until frost. Height 6 to 10 feet. **Pkt. 5c; oz. 10c.**

DWARF NASTURTIUMS

A bed of Dwarf Nasturtiums is very desirable for border along walk ways, etc. They are in constant bloom. Grow about one foot high. **Pkt. 5c; oz. 10c.**

NIGELLA—*Love-in-a-Mist*

A showy annual with fine cut foliage and curiously formed double flowers of light blue color. The form and color render it very desirable for bouquets. Height 1 foot.

Double, mixed colors. **Pkt. 10c.**

PANSIES

Next to the roses there is no other plant

which enjoys such universal popularity as the Pansy. It is a favorite with all, having a larger assortment of colors than most other flowers. It is a hardy perennial; blooms continuously from spring until late in the fall, and will, if slightly covered, bring fine results the second year. No garden, however small it may be, should be without a bed of pansies. **Per Pkt. 10c.**

EXTRA CHOICE

These largest and most beautiful of all blotched pansies have been developed after years of close selection by a skilled market grower, who raises no other strain than this, which he has improved to such a wonderful degree. The well formed expanded flowers are uniformly of the largest size and good substance; they are borne upon long stiff stems well above the heavy deep-green foliage. Of varied ground colors, such as white, cream, yellow, deep orange, mahogany, claret, rose, reddish bronze, lavender and light blue, each petal is beautifully blotched. The compact rounded plants are of sturdy habit, and so deep rooted that they bear the gigantic flowers profusely and continuously. The seed necessarily is very expensive, but well worth all it costs. **Extra Choice, Pkt. 25c.**

PETUNIA

One of the best flowers for splendid display throughout the entire season. Beautiful new colors, striped and marked in the most diversified manner. The ease of culture, profuse and continuous blooms, adaptation for different styles of growth—indoors and in the garden—render the Petunia one of the most valuable of the annuals and entitled to a generous share of the space in every garden. In bloom from the first of July to October. Half hardy perennial.

Single Mixed. Saved from choice flowers, **Pkt. 10c.**

Fancy Hybrid. Produce immense size single blossoms. **Pkt. 20c.**

PHLOX DRUMMONDII

No flower excels this in all the qualities that make a popular annual. Brilliant and varied colors, continuous and profuse bloom, being one of the last to succumb to the frosts of late October, it is excellent for bouquets, all combine to place it in the list of the best half dozen flowers for garden decoration. Height, 18 inches. **Mixed, Pkt. 10c.**

PINKS—*Dianthus*

Splendid large flowers of the richest and most brilliant colors and markings; constantly in bloom from July until after severe frost, the first and also the second year. No flower excels this genus for a brilliant show of colors through the summer. Height 1 foot.

Pkt. 10c.

PORTULACA—*Rose Moss*.

There are scarcely any flowers in cultivation that make such a dazzling display of beauty as a bed of many-hued, brilliant-colored Portulaca. They are in bloom from about the first of July until killed by frost in autumn. Plant in open ground after it has become warm, in light soil and in a dry situation. If the beds have a full exposure to the sun the ground will be covered with the plants and the effect beautiful. Tender annual. Height 6 inches.

Single Mixed, **Pkt. 5c.**

POPPY—*SINGLE AND DOUBLE*

A well known flower of great profusion. A grand collection of the annual varieties.

Pkt. 5c.

Fairy—The flowers are perfectly double, of large size and magnificent form. In colors the grand large flowers are of pure white, glowing scarlet, light lilac, scarlet with white and black and deep maroon. **Mixed, Pkt. 10c.**

The Shirley—They are similar in every way to Wild Scarlet Field Poppy of England and the Continent, but the range of colors is so varied that scarcely two will be found alike. **Pkt. 10c.**

Iceland—*Perennial*—The delicate, fragrant flowers are exceedingly beautiful, while their

long stems are well suited for cutting. The plants are perfectly hardy, easily cultivated, and the lovely white, yellow and orange red flowers are in bloom from early summer until fall. Hardy perennial, blooming the first year from seed. **Pkt. 10c.**

New Oriental Hybrid—Perennial—For brilliancy of colors there is nothing to equal these Oriental Poppies. The flowers are of enormous size, often measuring over 6 inches in diameter, while the colors range from soft flesh and rose to the most brilliant, dazzling scarlet and richest maroon-purple. One of their most dazzling qualities is that they are perfectly hardy perennials, living through winters with but little protection and increasing in size from year to year. **Pkt. 10c.**

SALPIGLOSSIS

A beautiful annual that deserves to be more widely known; when once grown in the garden will be one of the first to be chosen for next year. Flowers of the richest colors—blue, crimson, yellow, purple, scarlet, etc., with texture like rich velvet; each petal beautifully pencilled. Splendid for bouquets.

Height 2 feet. Mixed colors. **Pkt. 5c.**

SALVIA

The Salvia or Scarlet Flowering Sage is a very ornamental plant, flowering in spikes, and continues in bloom in the open ground until frost, when the plants can be removed to the greenhouse and they will continue in bloom a long time. This variety is of the dwarf habit, and the spikes of flowers are not so large as some of the greenhouse sorts. Height 1½ feet. Tender annual. **Pkt. 10c.**

STOCKS—Ten Weeks.

Plants grow about 1 foot high, making a compact bush, covered with splendid spikes of blossoms from July till frost. The seed is our own importation from the most celebrated German grower of this flower, saved only from selected pot plants, and will produce the largest proportion possible to obtain of large double flowers, in the most brilliant colors and variety. Half hardy annual. Height 1 foot. Double, mixed. **Pkt. 10c.**

SWEET WILLIAM—Dianthus Barbatus

The improved varieties of this popular flower are very beautiful, and should find a place in every garden. A great variety of rich colors, eyed and variegated with other shades, forming large trusses of blooms, remaining a long time in blossom. A bed of Sweet Williams is very attractive the last of June and the first of July, at a time when but few other flowers are in blossom. Hardy perennial. Height 18 inches. Double, mixed. **Pkt. 10c.**

SWEET PEAS

Since the advent of the Spencer Type of Sweet Peas the propagation of this beautiful flower is being indulged in by more people every year. The great number of different colors admits of our making our own selection and the work required in the growing is far more than compensated by the long period of blooms with their extremely long stems and brilliant colors. If you have never tried the Spencer Sweet Peas, begin this season by trying some of the popular varieties mentioned below. They may be grown in single or double rows, preferably in rows extending north and south.

The trench should be spaded 18 inches deep and filled with good soil, placing in the bottom a good mixture of well rotted stable manure and a mixture of ground bone near the surface. When ready to plant, furrow out to depth of 5 or 6 inches, drop in the seeds quite close together and cover to a depth of about 2 inches. When the plants come up, thin to about 3 inches apart and gradually draw the dirt around them until the trench is filled. Keep the soil moist, and a light mulching will tend to hold the moisture and prevent the soil baking and becoming so hot. Plant as early as the soil can be worked, as the frost will not hurt the young plants. Stick brush

along the rows or form some kind of a trellis for them to climb upon. The offerings given in the next column contain some of the very best varieties:

SPENCER SWEET PEAS

| | Pkt. | Oz. |
|--|------|-----|
| Dobbies Cream | 10c | 30c |
| King White, the best pure white | 10c | 35c |
| King Edward, bright crimson scarlet | 10c | 35c |
| Illuminator, a rich salmon pink | 10c | 35c |
| Sterling Stent, deep salmon | 10c | 30c |
| Othello, deep maroon | 10c | 25c |
| Countess, soft rose pink | 10c | 25c |
| Lady Evelyn Eye, pink | 10c | 30c |
| Royal Purple, deep purple | 10c | 35c |
| Florence Nightengale, lavender | 10c | 25c |
| Mrs. Hugh Dlekson, pinkish apricot on a cream ground | 10c | 30c |
| Wedgewood | 10c | 30c |
| Mixed Spencers | 10c | 25c |

Grandiflora Variety

Grandiflora, Mixed oz. 20c.
An ounce of seed will plant about 16 feet.

SWEET SULTAN—Centura Moschata

A handsome annual with fragrant flowers, borne on long slender stems. Their fragrance and habits of growth adapt them finely for bouquets. In bloom from July to October. Height 2 feet. Mixed, **Pkt. 10c.**

THUNBERGIA—Altum

Climbing Black Eyed Susan

A trailing or climbing plant with flowers of various shades of yellow or white, having a dark center or eye. Finely adapted for vases or hanging baskets for piazza decorations. Height 4 feet. Mixed, **Pkt. 10c.**

The fine variety of colors, with stripes and markings of different colors, profuse and long continued bloom.

VERBENA

The most popular bedding plant grown from seed, and excellent for bouquets, make them one of the most desirable annuals for general culture. Grown from seed, the flowers are quite fragrant, and they blossom stronger than from cuttings. Tender perennial.

Verbena Hybrida, mixed colors, **Pkt. 5c.**

We furnish Verbena plants in the spring months. See list of plants.

WALLFLOWER.

The large, massive spikes of Wallflower are very conspicuous in beds and borders, and are very useful in making bouquets. They are deliciously fragrant, perfectly double, and combine many shades of color—the orange, purple and chocolate predominating. Height 18 inches. Tender perennial. Double Mixed, **Pkt. 10c.**

WILD CUCUMBER—Eschinchystis Lobata

Ornamental, climbing cucumbers with curious fruit, remarkable for its luxuriance and rapidity of growth. Height 15 feet. Half hardy annual. **Pkt. 5c; oz. 15c.**

ZINNIA

Fine, large flowers of great variety of colors—red, rose, crimson, scarlet, purple, orange white and yellow—the flowers full double as a dahlia and remaining in bloom from July till frost. Make a fine display when grown in rows, the plants forming a dense hedge covered with blooms. Height 2 feet. Half hardy annual. Double, Mixed, **Pkt. 5c.**

BULBS

Gladioli in all colors. 20c each, 3 for 50c; Doz. \$1.50

These bulbs do well in our climate, blossoming most freely for weeks. The culture is of the easiest. Set the bulbs about 3 inches deep and 7 or 8 inches apart each way.

Beside the above we have in stock in November and December, for winter and spring blooming, the following bulbs: Tulips, Extra Early and Darwin; Narcissus Bulbs, Chinese Lilies, Paper Whites, Hyacinths, Freesias, Crocuses.

Will be able to quote prices for fall delivery
October 1

FARM AND FIELD SEED DEPARTMENT

THE PRICES OF ALL FIELD AND FARM SEEDS ARE THOSE RULING JANUARY 1, 1922, AND ARE SUBJECT TO CHANGE. AS FAR AS POSSIBLE WE WILL FILL ALL ORDERS AT PRICES QUOTED, BUT IF MARKET VALUES WILL NOT PERMIT, WE WILL SEND ALL THAT MONEY REMITTED WILL PAY FOR. GET OUR PRICES ON QUANTITIES ON ALL FIELD AND FARM SEEDS. IF PRICES DECLINE OUR CUSTOMERS SHALL HAVE THE BENEFIT

SELECTED SEED CORN

Postage at the rate of 5 cents per lb. must be added for the first pound, and 1c each additional pound, if wanted by mail. Eight lbs. of the small kernel varieties or 10 lbs. of the large varieties will plant an acre.

IDAHO YELLOW DENT

Our Idaho Yellow Dent corn is the small cob, medium sized ear variety, maturing the earliest of any dent corn we carry. It has been grown here until fully acclimated, and may be depended on as a sure cropper.

Price lb. 15c; 10 lbs. \$1.00.

Write for Quantity Price.

MINNESOTA NO. 13.

We will carry in stock this season the Minnesota No. 13, a Yellow Dent variety, particularly adapted to this climate. This seed is pure, and purchased direct from the growers; we recommend it to those wishing to get started with pure seed. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels, packed closely on the cob from butt to tip. Ears average 8 inches in length and are usually borne two on a stalk. Cobs are well filled and the individual kernels plump and of good color. This corn is recommended by various experiment stations. Write us for prices.

SILVER MINE (Dent)

We have had splendid success with this new variety of white dent corn. Stalks growing from 8 to 12 feet. Ears running from 10 to 16 inches long. A splendid variety for ensilage. This corn is worthy a trial. Prices on application.

IDAHO WHITE FLINT

This standard variety of white flint corn has been grown for us in Idaho for the past seven years, and produces a good-sized, well-filled ear from 12 to 16 inches in length and at times three ears to the stalk. A sure cropper for any section of Idaho.

Price, lb. 10c.

PRIDE OF THE NORTH

(Ninety days). A valuable variety of the north; matures early. Planted as late as July 4th, it has matured by October 1st. Ears from 8 to 10 inches long, 14 to 16 rows; kernels closely set, light orange color. Stalks 6 to 8 feet. Ask for prices.

IDAHO YELLOW FLINT.

This stock has been grown for us for the past 10 years, is a heavy yielder and fully matures in 80 to 90 days. Price, lb., 10c.

GRAIN

Postage, 5c first pound, add 1c extra each additional pound.

Get Our Quantity Prices.

SPRING WHEAT

Sow 100 to 120 lbs. per acre.

We give special attention to our grain, procuring from reliable growers who select for seed. We cannot guarantee purity on any grain, but assure you it will be the best obtainable. Our process for cleaning is near perfect. When grain seeds are shipped in seamless sacks, we charge 70c extra. Price, for all varieties, except where noted, 5 lbs. for 25c. For larger quantity, ask for our latest price list, sent free.

MARQUIS WHEAT

The wheat that will lead all others in Idaho. Our seed stock was shipped direct from Canada by us, was sowed May 10th and harvested

August 19th, yielding 50 bushels per acre. Grades No. 1 Hard for milling purposes. Kernels hard and flinty, a little darker than the Red Fife, and more plump. Our field was carefully inspected by us personally, and we offer you as near a perfect strain as is obtainable. Start your crop right. Samples on request.

Price 5c per lb. Special price on quantities.

We carry in stock re-cleaned wheat of the different varieties, and would be pleased to quote you on request, in quantities to suit.

DICKLOW WHEAT

This wheat was selected after the inspection of a dozen fields and was as near pure as it is possible to obtain. The field of 55 acres yielded 58 bushels to the acre. It is a soft spring wheat of the club variety and stands up well.

Price 5c per lb. Write early for quantity prices, as our supply is limited.

EARLY BART WHEAT

A splendid spring variety. Although bearded, we believe it will give results where others fail; particularly adapted to dry land; about three weeks earlier than Blue Stem.

Price 5c per lb. Get quantity price.

BARLEY

Sow 80 to 100 lbs. per acre
Prices on application.

NAKED BEARLESS or WHITE HULL-LESS

This is decidedly distinct from the malting variety, having no beard and shelling its hull same as wheat. In fact, some people have mistaken the grain for wheat. It is the best of all barleys for feeding and is rapidly taking the place of spring rye. Grows very rank and vigorously and thrives even at altitudes of 8,000 to 9,000 feet. As there is a species of naked barley which has a beard, be sure to get the light colored barley if you want the beardless. On account of its rank growth, it requires less to sow an acre.

BLUE BALLED OR NAKED BARLEY—This shells out like wheat, is the heaviest yielder of all barley, and as good a feed.

EARLY BLACK (70 days) BARLEY

This is undoubtedly the earliest of all barley. In 70 days from the time the barley was taken out of the bin to sow, the new crop was threshed and put back in the bin. Our supply on this barley is very limited. Get your order in early.

Prices and samples on application.

RYE

Sow 60 to 80 lbs. per acre.

SPRING RYE—It is a quick growing crop which will give a good early pasture and later on a good cutting of hay or a grand crop of grain. Please note that in ordering spring rye we offer what is furnished us as spring rye, but make no guarantee for same.

Prices on request.

FALL OR WINTER—It is a good crop for early fall or spring pasture, as it keeps green a long time in the fall and starts growing again as soon as the weather gets a little warm. Does well in any kind of soil. There is always a good market for good fall rye for seeding purposes. Prices on request.

OATS

We carry in stock re-cleaned oats suitable for seed. Write us for prices and variety wanted.

WRITE FOR OUR QUANTITY PRICES

GRASS SEED.

The laws of Idaho are very strict with reference to sale of seeds containing noxious weeds. We give this department our special attention, selecting only such seeds as pass the pure seed law, and your orders will be filled with strictly first class seed of good germination. We are unable to quote prices covering the season, owing to fluctuation of prices, and we ask you to write us for quantity prices.

Seventy pounds may be sent by parcels post in one package, at the rate of 5c for first lb. and one cent per lb. for each additional lb. up to and including the second zone. Inquire of postmaster for other zones.

ALFALFA OR LUCERNE.

This plant is too well known in this state to require description, being especially adapted to our soil and climatic conditions. The large long roots penetrate deep into the soil and gather nitrogen, thus increasing the fertility to the highest point. All seed offered is high grade state tested. Sow 12 to 15 lbs. per acre.

Price, 1b. 25c. Ask for special quantity price.

GRIMM ALFALFA

An Alfalfa Which is Extra Hardy and Vigorous.

In Minnesota there has been developed a strain of Alfalfa which stands the northern winters perfectly. This alfalfa does not winter-kill as do the ordinary varieties in that locality. It is easy to establish, has wonderful vitality, and it has a branching root system which permits it to grow on hardpan soils and where water is near the surface. This alfalfa was developed by Mr. Wendelin Grimm, and has been called Grimm Alfalfa.

Grimm Alfalfa is drought resisting, winters perfectly, thrives on all soils except undrained meadow land and is unaffected by extreme heat or cold, wet or dry climate. Its feeding value is of the highest, and the plant stools more than the ordinary alfalfa, so that, when sown broadcast, 12 lbs of seed per acre is sufficient. If your conditions are such as to require an extremely hardy drought resisting alfalfa, you will find that Grimm Alfalfa will be the best for these conditions. Genuine variety, prepaid, 60c per lb. Write for quantity prices.

TURKESTAN OR DRY-LAND ALFALFA Imported Seed.

We recommend this for situations where water is not abundant. We suggest that it be seeded a little heavier than the ordinary type, as it is inclined to become coarse and woody, and thick sowing will produce finer plants. We can supply this in original package, or in smaller quantity. Price per lb. 30c. Write or wire us on larger quantities.

GENUINE COSSACK ALFALFA

This variety comes from a region in Siberia where the total annual precipitation does not exceed eight inches and the temperature varies from 106 degrees in summer to 50 degrees below in winter, often without snow. Planted in rows 2x4 feet or 5444 plants to the acre.

1 lb. \$1.50; 5 lbs. \$6.50; 10 lbs. \$12.50.

ALSIKE OR SWEDISH CLOVER

Trifolium Hybridum

Comes from the little province of Alsike in Sweden. Does not winter kill, stands alike drouth or wet. One of the hardest varieties known, it is a perennial and a great favorite with bee-keepers, as its flowers have a sweet and agreeable odor and afford excellent forage for bees. Sow 5 to 8 pounds to the acre.

Per lb. 30c.

Get our quantity price.

CRIMSON CLOVER (Trifolium incarnatum)

An annual variety in common use in Italy
READ TOP PAGE 26. WRITE FOR OUR SP

and south France for feeding green. Also grown largely in this country in Virginia, and we find it does well in our western states. It is meeting with favor in Texas and adjoining states. Two to four weeks earlier than the red clover and for that reason more desirable. Immense yielder of fodder. Commences to grow at once after cutting, and continues to do so until frost. Height 1 foot; roots nearly black, blossoms long and deep carmine color. Makes good hay. Sow in the fall in southern country. Sow 15 lbs. to the acre. Per lb. 25c

WHITE BOKHARA OR SWEET CLOVER
Melilotus Alba

Tall shrub plant. Grows from 4 to 6 feet high, with branches whose extremes bear abundant small white extremely fragrant flowers. Splendid for bees. The best plant to grow as a soil renovator. Sown in the spring in drills 16 inches apart. Ten pounds will sow an acre. Per lb. 20c.

RED CLOVER—Trifolium Pratense.

All our Red Clover Seed is high grade and State tested.

Regarded as the most important of the whole genus for practical agriculture; valuable not only for forage but also as a fertilizer for the soil. Long, powerful tap roots, which in decaying add largely to that black mass of matter we call soil. Makes excellent hay, the acre.

Per lb. 30c. Ask for prices in quantities.

MAMMOTH SAPLING or PEA-VINE CLOVER

Being a rank grower, makes it most valuable for fertilizing purposes. Forage, flower and stem much darker than common red clover, ripens later than the latter, about the same time timothy, red top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Sow 12 to 15 lbs. to the acre. Per lb. 60c.

WHITE DUTCH CLOVER—Trifolium Repense

Excellent for pasture, and when mixed with Kentucky Blue Grass makes the finest and most nutritious food for sheep and cows. Used universally for lawns in most of the United States. Sow for pastures 5 to 8 lbs. per acre. Fancy, 75c; choice, 40 to 60c lb.

GRASS FOR LAWNS AND PASTURES

Package 5c per lb. and 1c each additional

lb. Ask for prices on quantities.

CANADIAN BLUE GRASS—Poa Compressa

Produces a fine foliage of dark green color and is more hardy than Kentucky Blue Grass. It is especially adapted to light, poor, dry soils and makes very satisfactory lawns. It has somewhat of a creeping habit and does not need to be clipped as often as Kentucky Blue Grass. 1 lb. 35c; 10 lbs. \$3.00.

KENTUCKY BLUE GRASS

The Great American Grass. The standard for lawns. Our "Idaho Tested Seeds" grade is the purest obtainable. The old standard grass for pasture as well as lawns. Every farmer knows it and its good qualities. Sow about 25 to 30 lbs. to the acre for meadows; for lawns, 120 to 150 lbs. to the acre. Our Idaho Tested Seeds' grade of Blue Grass is put up in sealed packages. Ask for "Idaho Tested Seeds."

1 lb. 55c; 10 lbs. \$5.00.

CREEPING BENT GRASS—Agrostis Stolonifera

Especially recommended for lawns at country homes where depending on irrigation. It flourishes with but little moisture. Also good on terraces and sloping ground. Pound 65c.

PERENNIAL ENGLISH RYE GRASS

Lolium Perenne

While this has long been esteemed in Europe and Australia, it has but recently been recognized by our western ranchers. It is worthy of all the praise given. As a pasture grass it grows quickly and withstands drouth reasonably well. For pasture sow in the spring, 25 to 30 lbs. to the acre; for lawns, 60 to 70 lbs. to the acre. 1 lb. 30c.

ECIAL PRICES ON QUANTITIES

MEADOW FESCUE OR ENGLISH BLUE GRASS—*Festuca Pratensis*

Especially adapted for permanent pasture. Grows 2 to 3 feet high, but not in tufts like orchard grass. Earliest and most nutritious of grass. Makes good hay and cattle thrive on it, whether in dry or green state. Succeeds even on poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. Sow 15 to 20 lbs. per acre. **Lb. 35c.**

TALL MEADOW OR EVERGREEN GRASS—*Avena Elatior*

The roots of this grass descend deeply into the subsoil, enabling it to withstand a protracted drouth, and is green all seasons of the year. Its early growth in the spring makes it equal to rye for pasture. It grows quickly after mowing, giving a denser and more succulent aftermath than any of the present popular tame grasses. Sow broadcast 25 to 30 lbs. of seed to an acre. **Lb. 40c.**

ORCHARD GRASS—*Dactylis Glomerata*

No farmer should be without a small field of Orchard Grass as in many respects it is superior to all other grasses. It stands the drouth, grows well in the shade, does well in wet or poor ground, and is splendid to prevent worn-out fields from washing. This grass furnishes excellent pasture three weeks before any other and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on Blue Grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa on average of 12 lbs. orchard to 8 lbs. alfalfa seed. Sow 20 to 25 lbs. per acre. **Per lb., 30c.**

TIMOTHY—*Phleum Pratense*

As a crop for hay, timothy is probably unsurpassed by any other grass. It is generally relished by all kinds of stock, especially horses, yields more nutritive matter than any other grasses or forage plants. Being an early grass, it is well adapted to spring and summer grazing, and if the fall season is favorable, it will grow sufficiently to furnish good fall grazing, too. Sow 10 or 12 lbs. to the acre. **Per lb. 15c.** Ask for prices on larger quantities.

RED TOP—*Agrostis Vulgaris*

A valuable grass for most soils. It is good, permanent grass, standing our climate as well as any other, and consequently well adapted to our pastures, in which it should be fed close, for if allowed to grow up to seed, the cattle refuse it. On moist, rich soil it will grow two feet, and on poor gravelly soil about half that high. It has been grown successfully even on "alkali" bottom lands, where other grasses failed. We have discontinued handling the chaffy grade of Red Top, and now offer only the clean seed. Sow 15 to 20 lbs. of clean seed to the acre. **Per lb. 30c.**

BROMUS INERMUS OR HUNGARIAN BROME GRASS

A wonderful drouth resister. A grass for the stock raiser. All kinds of stock like it. Will drive out Russian thistle, also black mustard.

This pre-eminent drouth resisting grass stands at the head of all, and is destined to lead the most satisfactory and valuable forage grass in all localities where arid soils demand a plant with ability to withstand drouth. Stands intense cold equally well. May be sown in autumn with winter wheat, or in early spring. In southern states sow in February or March, preparing lands as for other grasses. Blooms in north in June, and earlier in southern states. For hog pasture a mixture of *Bromus Inermus* and Alfalfa, where the latter succeeds well, is recommended by Prof. Ten Eyck, of the Kansas State Agricultural Experiment Station, and he also suggests for large pastures for cattle a mix-

ture of the following per acre: *Bromus Inermus*, 10 lbs.; Orchard Grass 6 lbs.; Meadow Fescue 8 lbs.; Red Clover 1 or 2 lbs.

Its nature is to stool out, and thus it does not show its best until the second season. It seldom produces seed the first year. Aside from alfalfa, no grass has fulfilled the promises to our western farmers better than the *Bromus Inermus*. It meets drouth as well as wet and cold, and for Idaho we know of no grass to equal it. Many of our large ranchers are planting it extensively. Sow 20 to 25 lbs. per acre. **Per lb., 35c.**

GRASS SEED MIXTURES FOR MEADOWS AND PASTURES.

It is a well ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses that are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best.

In the matter of preparing the soil for pasture, it is necessary to put the ground in the best condition possible to get the best results. The soil should be perfectly even after leveling the seed. You will find that cross harrowing will be to your advantage, as it has a tendency to scatter the seed more evenly. The following mixtures will be found desirable to use for permanent pastures, as they are properly proportioned for their different uses.

We are prepared to furnish any mixture wanted at the lowest prices, and would ask that you ask us for mixture prices, such as you may require for pasture mixtures.

FORAGE AND NON-SACCHARINE PLANTS—Quantity Price on Application. Postage Extra

GOLDEN MILLET

No other grass or forage has been able to produce the enormous yield of this plant. It has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. If sown in the spring on newly broken prairie, it leaves the ground in the finest condition for wheat, after harvesting it. Sow 25 to 40 lbs. to the acre. **Per lb. 10c.**

EARLY FORTUNE, or Broom Corn Millet

So called on account of the head being a panicle, as in broomcorn. Seed red and slightly larger than common millet, producing more seed and rather less foliage than Foxtail millet. Will produce seed in dry, hot seasons. Said not to have the diuretic effect of Foxtail Millet. **Price, lb. 10c; 12 lbs., \$1.00.**

JAPANESE MILLET, or 'Million Dollar Grass'

Prof. Brooks, of the Massachusetts Experiment Station, is quoted as saying: "At our station it produced 10 bushels of seed, 1,297 pounds of straw, 36,000 pounds of green fodder, 21,000 lbs. of good hay per acre, being superior to good corn fodder in feeding for milk, and in combination with the Soja bean makes a very superior ensilage. Recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements. If sown latter part of April will be ready to cut for hay by middle of July. Attains a height of from 5 to 7½ feet, according to season." We cannot recommend it in the far north. **Lb. 10c; 12 lbs. \$1.00.**

NEW SIBERIA OR RUSSIAN MILLET

It is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all the essential merits of any of the older sorts, exceeding them by far. The claims made by its introducers are that it is from two to three weeks earlier than the Golden millet, is a much heavier cropper, that the hay is much finer, stalks more elastic and growing much taller, that it is rust-proof, and chinch bugs do not relish it, and being of stooling habit, requires much less seed per acre. You should try it. **Per lb. 10c; 10 lbs. \$1.00.**

TEOSINTE

Recommended as the most prolific forage plant yet introduced. The stalk, containing much saccharine matter, is very nutritious. It can be cut several times during the season, yielding enormously. One seed will sometimes produce 20 to 60 stalks or shoots, and the warmer the climate the better it yields. Should not be planted until the soil is perfectly warm in the spring. Requires about 4 lbs. seed per acre. Plant in drills 3 feet apart and 2 to 3 seeds every 12 inches in drills.

$\frac{1}{4}$ lb. 50c; lb. \$1.50.

DWARF ESSEX RAPE—Brassica Napus

Main standby of the English farmer in raising choice mutton. Perfectly hardy and possesses remarkable fattening properties. Easily grown. One acre will pasture 36 head 2 months, and lambs will make a gain of from 8 to 12 lbs. per month. Pigs and cattle are also extremely fond of it. A very rank grower and bears heavy manuring and high cultivation. Sow at intervals of several weeks and secure a supply of good feed. Sown in June, rape should be fed in August, though if the first crop is cut about 4 inches from the ground, an aftergrowth will be useful later. For breeding flocks a piece should be sown first week in July or later. Does well sown with oats. If the soil is rich and clean, sow broadcast; otherwise in drills to cultivate the same as corn. Poultrymen will do well to sow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. Does well on alkali ground. Broadcast it takes 8 to 10 lbs. to the acre; in drills 4 to 5 lbs. to the acre. Per lb. 15c.

COW KALE, or Thousand Headed Kale

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stock men; endorsed by Agricultural Colleges and Government Stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 feet apart in the rows. Can be set as late as July. Write for full information on planting and feeding.

Postpaid, oz. 10c.

SUGAR CANE OR SORGHUM

Early Amber, a valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. When fed while young it makes a rapid second growth. Postpaid, lb. 15c; write for quantity price.

SILVER HULL BUCKWHEAT

An improved sort, much excelling the old common variety, which it has about superseded with us. It blooms longer, matures sooner, and yields double the amount per acre. Husk thinner, corners less prominent, and seeds of a beautiful light gray color. Flour made from this variety is pronounced better and more nutritious than others. Sow 30 to 50 lbs. to an acre. Pound 15c; 10 lbs. \$1.00.

JAPANESE BUCKWHEAT

A new variety that has been raised here with good results. Early and very productive, with kernels twice the size of any other buckwheat, of a rich, dark brown color, and makes superior flour. As it possesses a branching habit, only half as much seed is required to plant an acre. Straw is very stiff and stands up well. Pound 15c; 10 lbs. \$1.00.

HEMP SEED

This is a crop that deserves more attention. The seed can be marketed with us. The fiber is in demand in the eastern market.

Pound 15c; 7 lbs. \$1.00.

SUNFLOWER—MAMMOTH RUSSIAN

The largest and most productive variety. It makes one of the very best of foods for poultry, a great egg producer. $\frac{1}{4}$ lb. 10c; lb. postpaid, 25c; 10 lbs. \$1.65. Postage paid.

WILD RICE—Zizania Aquatica

For Planting in Duck Ponds.

For planting in duck ponds and around hunting grounds to furnish food for wild

fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds and small streams, and grows very rapidly in one to four feet of water, attracting all of these birds from September on. It also purifies the water and affords a refuge for small fry from large fish. Fresh seed supplied in season. Pound, 75c.

FLAX SEED

Farmers should not lose sight of the fact that flax seed can be raised where wheat is raised and where tried has brought better results for amount of labor invested than wheat. Soon as ample supply is offered there will be a greater demand. Thirty to forty pounds will sow an acre. We have choice northern grown seed. Lb. 30c, postpaid. Write for quantity price.

JERUSALEM CORN

It is pronounced the best and surest grain corn for dry countries and seasons, even better than Kaffir Corn, Dourha or Milo Maize. It grows about 3 feet high, makes one large head on main stalk and several smaller heads on side shoots; have seen as high as 8 heads on one stalk. The grains are pure white and nearly flat. Three pounds will plant one acre.

Pound 15c; write for quantity price.

RED KAFFIR CORN

This grows taller than the white, the stalks are more slender and juicy and very leafy. The heads are long, slender, compact and grow erect; they measure from one to two feet. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and yields earlier than the white variety, from 100 to 120 days, and yields much heavier. It is highly recommended by the Kansas Agricultural College at Manhattan.

Pound 10c. Write for quantity price.

FETERITA

Another non-saccharine from Sudan. It is an early maturing, drouth-resisting sorghum of considerable value both for fodder and grain. It has produced a crop where Jerusalem or Kaffir corn has failed. It should be planted in hills or drills, when the ground becomes warm, as it rots easily in cold ground.

Pound 15c. Write for quantity price.

BROOM CORN

Requires soil similar to corn, same cultivation, but should be planted some later in the season. Put ground in prime condition. We think that more of western farmers should grow broom corn for market. It is profitable. Frequently planted in drills $3\frac{1}{2}$ feet apart, leaving plants 6 inches apart; 10 to 20 lbs. to the acre.

IMPROVED EVERGREEN BROOM CORN.

This Broom Corn grows 8 to 10 feet high, stands up well; is entirely free from crooked brush. The fiber is long and fine. Its great value is that it will not go red in the field before it is cut, but is strictly a green variety of brush, commanding high price.

Pound, 15c.

THE OKLAHOMA BROOM CORN

Originated in Oklahoma. Most valuable grown there and in the southwest. Quite distinct from all others in earliness; robust habit and extreme productiveness; brush long and well fibered and is a drouth resister. Averages 5 feet in height. Seed may be left to ripen on brush without injury to latter, removing danger of heating from immature seed in bins. Stalks make excellent fodder if cut at once after brush is pulled.

10 lbs., \$1.25.

MIL O MAIZE

This is one of the sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height, 4 to 9 feet. Heads are very large, giving a heavy grain yield; is drouth resistant, and succeeds on alkali soil. Plant late, when ground is warm, 3 to 6 lbs. per acre. Lb., postpaid, 20c; 100 lbs. \$7.00.

VETCHES OR TARES—Vicia Sativa

(Common or Spring, Greatest Forage Plant)
One of the best forage plants that can be

grown on the Pacific Coast. This is a species of the pea grown extensively in western Oregon and Washington, especially in the Willamette valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of 2 bushels per acre. Vetch weighs 70 lbs. per bushel. Sow in the early spring. **Per lb. 15c; 100 lbs. \$9.00.**

VETCHES—*Vicia Villosa* (Sand or Winter)
This variety thrives in poor, arid, sandy soils. It is sown either in the fall or early spring, and is generally mixed with rye which serves to support the plants. It grows to a height of 3 or 4 feet and can be cut twice; first as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a nutritious food. **Per lb. 25c; Write for quantity price.**

PEANUTS

The peanut grows in this locality and does well if properly taken care of. Should be planted about April 15th and may be in hills about 3 feet apart each way. Seed may be hulled or in pod. **Per lb. 30c; 2 lbs. 50c.**

FIELD BEANS—WHITE NAVY

The standard white bean, of medium size. Plant in drills, so as to cultivate with a horse; 25 or 30 lbs. is enough for an acre. **Pound 20c. Write for quantity price.**

Our Idaho Bean. See description on page 2.

CANADA FIELD PEAS.

Peas are a legume or nitrogen gathering plant and should be grown more extensively in this section. They should be sown or drilled as soon as the ground can be worked in the spring, thus allowing them a good start before the weather becomes hot and dry. They may be sown with a nurse crop, about 60 lbs. of each, or if sown separately, 100 to 120 lbs. to the acre. In addition to enriching the ground, they are splendid stock feed and may be harvested by machinery, or hogged off to good advantage.

If wanted for hay, they should be cut while the supply of nutriment in milk is in the vine, forming the pod, cut and cured like hay. This makes the finest of hay for dairy stock, in fact all stock relish this hay. Be sure to plant early. Try some of these the coming season. **Price single pound, 15c per lb., post-paid. Get our prices in quantity.**

EARLY SOJA BEANS

Coffee Berry, also called Soy Bean

Soja Beans are drought resistant, much more so than cow peas but will not do as well as them on poor ground. The berries ripen in about 3 or 4 months from the time of planting and produce a crop of 20 to 40 bushels per acre, and are as easily grown as other beans. One bushel of Soja Beans is at least twice as valuable as corn for feeding purposes. When roasted and ground it closely resembles coffee and tastes quite similar.

Its great value to the farmer lies in the fact that when ground it makes one of the most valuable crops for feeding stock and adds greatly to the milk production. Being a rich, nitrogenous feed, it is unsurpassed as a flesh former, and like the clovers is a soil improver, deriving its nitrogen from the air. Sow in drills 2 or 3 feet apart and 1 foot between plants, 30 or 40 lbs. will sow one acre. Do not cover more than 1 to 1½ inches deep. **½ lb. 15c; lb. 25c; 10 lbs. \$1.50. Write for price list for quantity.**

SUDAN GRASS.

A new forage crop of great value to the west. Sudan grass was introduced into the United States in 1909 from Sudan, and the results were very promising so that plans were immediately made for testing it out over the U. S. As a result of these tests the Department of Agriculture reports that Sudan grass will be one of great value, especially in Texas, Oklahoma, Colorado and other western states that are deficient in rainfall. This grass has all the good qualities of Johnson grass and yet does not have the one objectionable feature, this is the root stocks by which the Johnson grass spreads from year to year, and becomes a pest and a menace to surrounding fields. Sudan grass is strictly an annual and dies each year like millet. The stems are very small and are rarely thicker than a lead pencil. The plant stools wonderfully, and produces, under favorable conditions, as many as 100 stalks from a single root. The grass yields a good crop of first class hay; all stock relish and thrive on it.

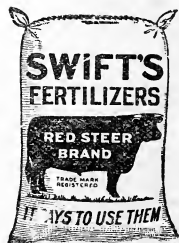
This grass will mature in from 70 to 80 days, but should have longer time to get the best results as to tonnage. It is best grown in rows as near together as can be cultivated conveniently, in which case two or three lbs. to the acre of good seed is sufficient. If sown broadcast, 15 to 25 pounds are required. Write us for prices on Sudan grass in large or small quantity. **Price, lb., 20c.**

Fertilizer Department

We are Authorized Distributors

For Swift & Co.'s Famous

"Red Steer" Fertilizers



The amount of commercial fertilizer used in the West is exceedingly small as compared with the amounts used in the East and Middle West. This is probably due to the prevailing belief that commercial fertilizers are not necessary in this section and also due to the fact that their importance and benefit are not understood or appreciated. Each year the growing crops take from the soil hundreds of pounds of Nitrogen, Phosphoric Acid and Potash, and it should be obvious to all that ultimately the quantity remaining will be so small as to make profitable cropping impossible. The importance of maintaining soil fertility by replacing annually the chemicals removed by the growing crops should not be overlooked, and as the amount of stable manure available is entirely inadequate, the sooner the grower decides to make up the deficiency by the application of high grade commercial fertilizers the sooner will he check the annual loss of fertility and bring his land back to its original fertility and crops to maximum.

Swift's "Red Steer" Fertilizers are the Best Crop Producers

BONE - BLOOD - TANKAGE

"It Pays to Use Them."

The Blood, Tankage and Bones produced by the immense slaughtering business of Swift & Company are used in Swift's High-Grade Fertilizers.

These materials are properly processed and combined, and make Swift's Fertilizers the most productive and most profitable for the farmer to use.

Swift's Fertilizers do not leach away, but become a part of the soil, therefore, any unused plant food is available to the following crop, which means an added profit and is another reason why it pays to use Swift's Fertilizers. The crops get every ounce the farmer pays for.

Swift's Fertilizers are finely ground and laid away in huge piles to cure, months before the shipping season, thus insuring double mixed goods uniform analyses and fine drilling condition.

Every brand of Swift's Fertilizers is made from the highest grade and most productive sources of plant food.

RESULTS—Large Profit to You.

ELEMENTS OF FERTILITY.

Nitrogen: Ammonia is the equivalent term for nitrogen. It produces leaves and stalks and gives vigor to the plant. Stunted plants, spindling stalks and pale green leaves clearly indicate that additional available ammonia is needed.

Phosphoric Acid: Phosphoric Acid is the plant food element that develops root system, hastens maturity, makes plump, heavy kernels, solid corn, large cotton bolls and gives strength and productive power to the plants.

Potash: Potash stiffens straw and stalk, promotes cellular growth and aids in starch formation.

When any one of the essential plant food

elements is lacking, biggest yields of best quality cannot be grown. The lacking plant food should be supplied in available form and from a high-grade source.

There is no higher grade source of plant food than the blood, bone and tankage produced by Swift & Company.

The analyses of all of Swift's Red Steer Fertilizers are designated by three figures, always written in the same order with a dash between. These three figures give at a glance the available plant food.

The first figure denotes the percentage of Nitrogen as Ammonia.

The second figures denotes the percentage of available Phosphoric Acid.

The third figure denotes the percentage of Actual water soluble—Potash K_2O .

Example:

Swift's Red Steer Special
2 - 14 - 1

Analysis:

| | |
|---------------------------------|-----|
| Ammonia | 2% |
| Available Phosphoric Acid | 14% |
| Actual Potash (K_2O) | 1% |

| | | | |
|--|-----|------|-----|
| Swift's Red Steer Special | 2 | -14 | -1 |
| Swift's Red Steer "A" Special | 4 | -10 | -2 |
| Swift's Red Steer "B" Fertilizer | 2 | -12 | -3 |
| Swift's Red Steer "C" | 3 | -10 | -4 |
| Swift's Red Steer "D" | 4 | -7 | -6 |
| Swift's Red Steer "E" | 3 | -10 | -10 |
| Swift's Red Steer "M" | 3 | -12 | -1 |
| Swift's Red Steer "O" | 2½ | -9 | -2½ |
| Swift's Red Steer Orch. Dress. | 13 | -4½ | -0 |
| Swift's Roselawn Fertilizer | 6 | -10½ | -0 |
| Swift's Red Steer No. 1 Tank | 9 | -5 | -0 |
| Swift's Red Steer No. 5 Tank | 5 | -8 | -0 |
| Swift's Blood Meal | 16½ | -0 | -0 |
| Swift's Raw Bone Meal | 4¼ | -24 | -0 |
| Swift's Bone Meal | 2¾ | -28 | -0 |
| Swift's Nitrate of Soda | 18½ | -0 | -0 |
| Swift's High Gr. Acid Phos. | 0 | -17½ | -0 |
| Swift's Sulphate of Ammonia | 25 | -0 | -0 |

Select the Formula you need and send us your order.

**Write Us For Prices on Bag, Ton
or Car Load Lots**

Use Fertilizers for Profit

SWIFT'S NITRATE OF SODA.

Those who used NITRATE OF SODA last season are more than pleased with results. For stimulating and forcing growth of trees and plants it is unexcelled, if scientifically applied.

We ship in carload lots and shall be pleased to quote on any quantity desired. Single pound, 10c. Write for quantity prices.

SULPHATE OF AMMONIA.

Swift's Arcadian Sulphate of Ammonia is the most concentrated nitrogenous top-dressing on the market. Guaranteed 25¼% Ammonia, and containing no borax.

It is fine and dry and easily spread by hand or by drill. The crop producing power of the ammonia is equal to that of any fertilizer.

Can furnish car lots, ton lots or bag lots. Get our prices.

SWIFT'S ROSELAWN FERTILIZER.

A highly concentrated fertilizer for all purposes especially recommended for all Garden Truck and for LAWNS, ROSES, Sweet Peas and other Flowers.

Price, 25 lb. Sax, \$1.25; 50 lb. Sax, \$2.35; 100 lb. Sax, \$4.50. Write for booklet.

STEAMED BONE MEAL.

This is one of the Best Fertilizers, very valuable enricher of the soil and economical in price.

ACID PHOSPHATE.

This is the same as superphosphate and is used extensively by orchardists in conjunction with sulphate of ammonia with profitable results, as it greatly assists in increasing tonnage.

SWIFT'S RED STEER ORCHARD DRESSING.

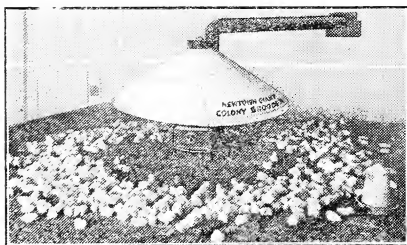
Orchard Dressing is a well-balanced fertilizer containing all the elements essential to growing good healthy fruit trees and producing the maximum quantity of fruit of superior quality. It contains steamed bone meal which in itself is an excellent fertilizer, the analysis showing 13% available ammonia and 4½% phosphoric acid.

SULPHUR

For SHEEPMEN and ORCHARDISTS and also as a FERTILIZER. Recent field experiments in the Northwest, particularly with alfalfa fields have demonstrated the fact that SULPHUR is one of the most valuable materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetation, but having the further and more valuable property of making available insoluble potash and phosphoric acid contained in all soils, as well as being an effective fungicide and insecticide.

Write for prices on quantity.

POULTRY SUPPLIES



Newtown Oil-Burning Colony Brooder

Blue flame; wickless; no smoke; no odor. Noiseless in operation. Two sizes—500 and 1000 chick. Famous for economical results.

Price \$29.00, \$36.00

F.O.B. Boise

THE LITTLE PUTNAM STOVE

Used under the drinking vessels of the poultry house to keep the water from freezing in the coldest winter weather. Used as the heat element for a Putnam Home-Made Oat Sprouter. You get greatest egg yield by keeping water from freezing and feeding some form of live green food. Take a little Putnam and make your own sprouter. Plans free with each stove.

Wonderful Results—Little Expense—Price \$2.00. Postage extra



QUEEN INCUBATORS

Stop hatching weak chicks with cheap incubators. A Queen costs but little more and the extra chicks that live and grow soon pay the difference.

Remember, it is not how many chicks you hatch that counts, but how many chicks you raise. Chicks that hatch out weak and wobbly and live but a few days, means nothing to you but trouble and loss. They make one sick of the poultry business.

Most of the chicks you lose in the first few weeks die because they did not have, when hatched, enough strength or vitality for a good start. Queen Incubators are famous the country over for big hatches of strong, healthy chicks that live and grow.

PROPER INSULATION

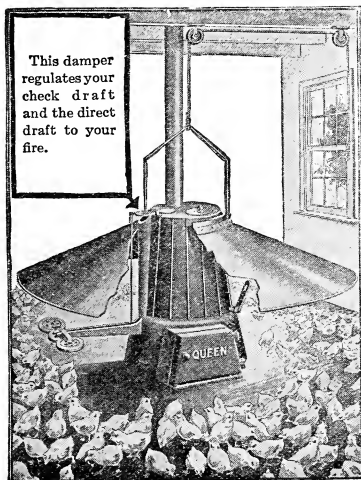
The Queen is double insulated. First we use double walls of California Redwood, forming a dead air space. Second, corrugated strawboard is used between the wooden wall. Proper insulation adds considerably to the manufacturing cost. However, it is an absolute requirement of a good incubator.

SIZES AND PRICES F. O. B. BOISE

| No. | Style K. Capacity | Each |
|---------|----------------------|---------|
| 20..... | 70 egg | \$17.75 |
| 21..... | 130 egg | 29.50 |
| 22..... | 220 egg | 39.50 |

Note—Special Descriptive Booklets on the Queen Incubators and Brooders sent free on request. Plan your requirements early so that your machines will be ready when wanted.

| No. | Regular Style Capacity | Each |
|---------|---------------------------|----------|
| 1..... | 85 egg..... | \$ 29.50 |
| 2..... | 135 egg..... | 39.75 |
| 3..... | 180 egg..... | 47.00 |
| 4..... | 275 egg..... | 62.00 |
| 5..... | 400 egg..... | 73.50 |
| 25..... | 600 egg..... | 109.50 |
| 35..... | 800 egg..... | 145.00 |
| 45..... | 1000 egg..... | 175.00 |



QUEEN BROODER STOVES

Broods 'em Better and Cheaper than
"Old Mother Hen"

The Queen Colony Brooder is a new and improved design of brooder stove. It is made of highest quality iron castings that will wear and last indefinitely.

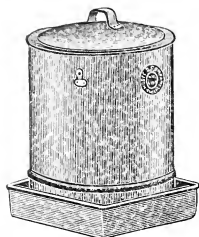
There are no drafts in the smoke pipe of the Queen. The check rests on top of the stove and opens outward when fire is too warm, thus giving a gentle inflow of air to retard the heat. While the opening of the draft to increase the fire is located at the top of the stove it opens in to the fire at the base through an opening extending down the side of the bottom. This feeds the draft into the fire from underneath with no opening below the hover.

As will be seen from the illustration the check and the draft lids are cast together and operated together. Thus when the fire is too hot, the wafer expands and closes the draft and opens the check, both at the same time. When it is too cool, the wafer contracts and closes the check and opens the draft. This keeps an even heat all the time, both night and day, in cold weather or warm, and does it automatically. You don't have to pay any attention to it whatsoever. Just set the register for the proper temperature at the start of the season—it will do the rest.

BURNS ANY KIND OF FUEL

The Queen stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel and hard or soft coal, coke, charcoal, or briquettes burn equally well. Of course hard coal will not cause the pipe to become dirty as quickly as the others, but will give no better heat. Prices f. o. b. Boise; No. 1,

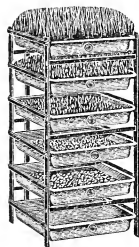
600 chick capacity \$24.00; No. 2, capacity 1,200 Chicks, \$29.00.



MOE'S IMPROVED TOP FILL FOUNTAIN

Provides pure, fresh water at all times. The double wall construction retards freezing, and keeps water cool in summer. Fills from the top, easily cleaned, and feeds automatically.

| | | | |
|----------------|--------------------|------|--------|
| No. 1 Capacity |1 Gallon..... | Each | \$1.85 |
| No. 2 | " 2 " | " | 2.65 |
| No. 4 | " 4 " | " | 3.50 |



MOE'S OAT SPROUTER

Steel frame, well braced and painted. With six heavy galvanized iron pans which are interchangeable. Provides the very necessary green feed at all seasons.

Total height 3 feet.
Size of pans 16x18 in.
No. 110, Moe's Oat Sprouter, each\$6.75



BOTTOM FILL FOUNTAINS

The round taper shape prevents damage from freezing. Made in two pieces accurately formed. Easily filled and cleaned.

| | | | |
|--------------|---------------|------|-------|
| No. Capacity | | Each | |
| 19 | 1 quart..... | | \$.40 |
| 20 | 2 quarts..... | | .50 |
| 24 | 1 Gallon..... | | .75 |



MOE'S WALL FOUNTAIN

A practical and convenient fountain. Has removable bottom, easily kept clean. Capacity about one gallon.

No. 26A.....Each 80c

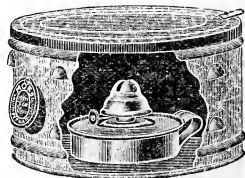


MOE'S BABY CHICK FEEDER

A great feed saver, and can also be used for water or milk. Accurately stamped with dies. Top fits snugly, yet is easily taken off for filling and cleaning.

| | | |
|--|-----------|-------|
| No. 11, diameter 6 in. with 8 holes | Each..... | \$.15 |
| No. 12, diameter 8 1/4 in. with 12 holes | Each..... | \$.25 |

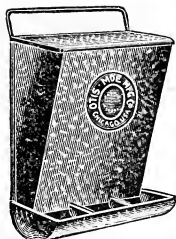
MOE'S FOUNTAIN HEATER



Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and when placed under the No. 74 fountain (shown above) makes an ideal heater fountain at a low price. Holds enough kerosene to burn continuously for seven days.

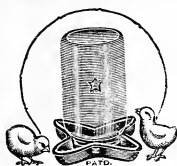
No. 10 heater.....Each \$1.90

MOE'S GRIT AND SHELL BOXES



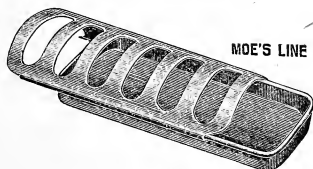
Economical and practical for feeding grit, shells, etc., keeps the fowls in prime, healthy condition.

No. 9, three compartment.....Each \$1.10
No. 90 four compartment.....Each 1.45



MOE'S STAR FOUNTAIN AND FEEDER

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feeding as well as water. Little chicks cannot drown. Fits any Mason jar in 1 pint, 1 quart and 2 quart sizes.
No. 32 (glass jar not included).....Each 10c



MOE'S SANITARY FEEDING TROUGHS

Accurately stamped with dies. No sharp or rough edges to injure the chicks. Top slides off so the pan is easily filled and cleaned.

No. 21, length 12 in.....Each \$.50
No. 22, length 18 in......70
No. 23, length 24 in.....1.00



MOE'S SINGLE FEEDING TROUGHS.

For chicks and growing stock. Accurately stamped with dies. No rough edges, and can be hung on the wall. Sliding top.

No. 55, length 12 in.....Each \$.35
No. 56, length 18 in......45
No. 57, length 24 in......65



MOE'S DOUBLE FEEDING TROUGHS

Double trough with sliding top, easily filled and cleaned. Accurately stamped with dies. No rough edges.

No. 58, length 12 in.....\$.50
No. 59, length 18 in......65
No. 60, length 24 in......75



MOE'S ALUMINUM LEG BANDS

No. 130 Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Quickly applied.

Pkg. of 12 25 50 100 500 1000
Price .15 .25 .45 .75 3.50 6.00

MOE'S CELLULOID COLORED LEG BANDS

Best quality. Made of celluloid in six sizes and ten colors—White, Black, Dark Blue, Light Blue, Red, Pink, Garnet, Green, Yellow, Purple.

Sizes: Asiatic, American, Mediterranean, Bantam:

| | |
|-----------------|--------|
| 12 bands..... | \$.15 |
| 25 bands..... | .30 |
| 50 bands..... | .50 |
| 100 bands..... | .75 |
| 500 bands..... | 3.60 |
| 1000 bands..... | 7.00 |

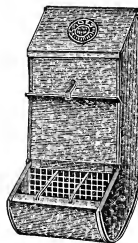
Pigeon, Baby Chick:

| | |
|-----------------|--------|
| 12 bands..... | \$.10 |
| 25 bands..... | .25 |
| 50 bands..... | .35 |
| 100 bands..... | .50 |
| 500 bands..... | 2.25 |
| 1000 bands..... | 4.00 |

MOE'S DRY MASH HOPPER

A strictly high quality hopper, properly designed. The curved bottom keeps the feed in easy reach, and the taper shape of the hopper prevents the feed from clogging.

Height 19 in.



No. 35, width 8½ in.....Each \$1.65
No. 36, width 12 in.....2.20
No. 37, width 24 in.....3.10

Seeder—Cahoon Seeders

For sowing all kinds of grass seed, best machine of kind on market, as you get an even stand.

Bag will hold one bushel of grass seed, suspended from operator's neck by straps. Seed thrown from 8 to 20 feet. **Price \$5.00.**

Cyclone Hand Seeder

This machine is very handy for seeding grass seeds of all kinds. Same is carried by means of strap over shoulder and spreader revolved by means of crank.

Price, \$2.25.

Seed Cleaners—Clipper Seed Cleaner

Every up-to-date farmer should clean his grass or field seeds before sowing. Not only will the weeds be separated from the seed, but the light seed may be blown over, thus leaving only the healthy, plump seed for sowing. We are agents for the Clipper Mill, considered the best grass seed cleaner on the market.

There are 10 screens included in the price of this mill, thus allowing you to clean any kind of grass or field seeds.

No. 1 or farm size, with 10 screens,

f. o. b. Boise

No. 2 or mill size, with 10 screens,

f. o. b. Boise

Write for Prices.

HYGROMETERS

For incubators **\$1.50**
Hygrometer and Thermometer **\$3.50**

THERMOMETERS

For incubators **\$1.00, \$1.50**
For Brooders **\$1.00**

Albatross Creola

(The white disinfectant paint) for interior use only.

DRIES SNOW WHITE

**CONTAINS 5% SOLUBLE CRESOLS
APPLIED WITH A BRUSH OR SPRAY**

**Ready to use when Mixed with Warm, Hot
or COLD WATER**

**Paints and Disinfects in ONE Operation
Sticks to Any Surface
Very Useful for**

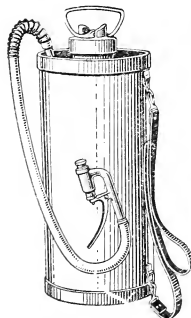
PAINTING AND DISINFECTING
Poultry Houses, Chicken Coops, Cow Sheds,
Barns, Stables, Dairies, Hog Houses, Cel-
lars, Kennels, Factory Buildings, Docks,
Warehouses, Garages, etc., etc.

5-lb. Package, 75c.

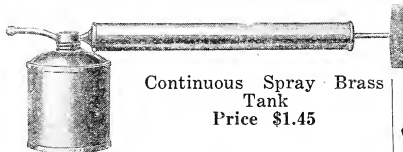
Putnam Brooder Heater

(Pat'd June 13, 1916—Dec. 11, 1917)

This fire-safe Putnam Brooder Heater is the heart of the Putnam home-made brooder. It requires tending only once a week and can be relied upon to deliver a regular supply of heat. This practical brooder is made out of a shoe box approximately 32 inches long, 16 inches wide and 10 inches deep. It will accommodate from 35 to 60 chicks. **Price \$4.75**

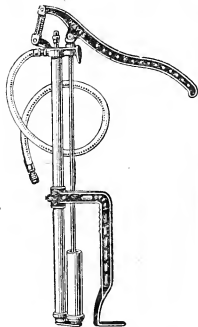


**Boss Galvanized
4 gal.
Price \$7.50**



**Continuous Spray Brass
Tank
Price \$1.45**

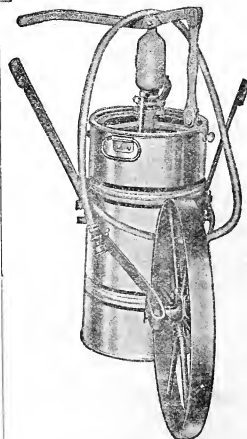
For bucket;
brass cylinder,
Price \$3.90
and up.



**Galvanized Bowl
Price 90c**



All Tin. Price 70c



Auto Wheel Spray No. 40
12 gallons; 20 in. wheel.
Can be conveniently used
in the orchard, field, or
for applying whiteflash or
disinfectant. **Price \$29.50**

BLATCHFORD'S EGG MASH—THE YEAR-ROUND EGG MAKER

Contains just the right combination of MILK, MEAT and GRAINS, carefully ground to the correct degree of coarseness necessary for their complete digestion—thus supplying abundantly the surplus nourishment a hen needs for CONTINUOUS egg production—while the value of the eggs received greatly exceeds the cost of feeding.

25 lb. sacks and 100 lb. sacks. Write for prices.

SCRATCH FOOD

A perfect "scratch ration" for your fowls. It is composed of grains, bone and charcoal, carefully prepared in correct proportion and furnishes a balanced ration. Our Scratch Food can be fed to young chicks at four weeks and has every element necessary to hasten normal growth, build up bone and flesh—a rich nourishing food they greatly relish.

100 lb. sacks. Write for prices.

CHICK FEED

In order to start the young chicks right they should have a properly balanced ration.

The digestive apparatus of a small chick is very tender and easily irritated. All that the chick eats must be easily digested, thus causing no irritation. We carry the Best Chick Feed, and believe the elements necessary for the properly starting of the chick are contained in this feed.

100 lb. Sacks. Write for prices.

BLATCHFORD'S CHICK MASH

Is made from Blatchford's Steam Cook Milk Substitute and contains meat scraps, fish and bone meal, also a large variety of purefoods. It is perfectly balanced for the tender digestive organs of little chicks. Indispensable at moulting time.

25 lb. sacks and 100 lb. sacks. Write for prices.

Swift's Meat Meal—A meat preparation made of fine ground meat scraps. Very fine for mashes. High grade. 50% protein. Price, \$4.25

FISH MEAT MEAL

This is a meat preparation made of fish, and an excellent food for poultry. It is high in protein and is highly recommended by our best poultrymen.

Price 100 lbs., \$5.25

SWIFT'S POULTRY BONE

Many users consider it necessary to feed their hens ground bone, as it contains the elements that produce muscle and bone.

Price, 100 lbs; granulated \$4.25; meal, \$4.00

SWIFT'S MEAT SCRAP

Every poultryman uses meat in some form in feeding, and the cheapest and most convenient method is this Commercial Meat Scrap. This meat is as high in protein, and specially prepared and as near odorless as can be made. Our Swift's is 50% protein.

Price, 100 lbs. sacks, \$5.75.

EYRIE SHIPPING COOP

| | |
|------------------------------------|--------|
| A—Single bird, small, each, | |
| postage extra..... | \$.80 |
| B—Single bird, medium, each, | |
| postage extra..... | .90 |
| C—Two bird, medium, each, | |
| postage extra..... | 1.00 |
| D—Two large or three medium birds, | |
| each, postage extra..... | 1.10 |

SEFTON LIVE CHICK BOXES

| | |
|---|-----|
| * 25-chick size, each, postage extra..... | .25 |
| 50-chick size, each, postage extra..... | .35 |
| 100-chick size, each, postage extra..... | .50 |

BUCK'S EGG CARRIER

The best, the cheapest, the most convenient Egg Carrier. The "Buck" is light but strong, being almost indestructible. Can be folded flat for shipping empty. The most satisfactory egg carrier. Holds 6 to 12 dozen. Weight with fillers, 4 and 7 pounds.

Price, each: 6-doz. 65c; 12-doz. 90c

PARCEL POST EGG BOXES

| | |
|--|-----|
| No. 3, 15-egg size, each, postage extra | .35 |
| No. 4, 30-egg size, each, postage extra | .55 |
| No. 5, 50-egg size each, postage extra | .65 |
| No. 6, 100-egg size, each, postage extra | .75 |

EGG CARTON

These cartons are for the delivery of fresh eggs to consumers. They are neat and convenient, holding one dozen eggs.

Price, postpaid per doz. 25c; per 100 \$1.50

NEST EGGS

China, best grade opal eggs. Price, each 5c; doz. 45c.

DIGESTER TANKAGE

Swift's Digester Tankage is the most economical source of digestible protein known, containing twice as much protein as Oil Meal and five times as much as Middlings, Shorts, Shipstuff or Alfalfa Meal. It contains Phosphates in proper proportion to insure strength of bone and frame work.

Hogs on clover or alfalfa pasture if fed a little Digester Tankage will be improved and cost of gains greatly reduced. 60% Protein. \$4.75, 100 lb. saks.

SOY BEAN MEAL

Soy bean meal is very high in protein, and is generally used in a mash mixture, but may be fed alone, and is a great egg producer.

100 lbs. sacks. Write for prices.

OIL CAKE MEAL

This is the flax after the oil has been removed then ground to a meal, and it is used in the poultry mixtures and for stock feed. A valuable feed for young stock, as it tones up the system and gives the animal a good appetite.


100 lbs. sacks. Write for prices.

BLATCHFORD'S STOCK FOODS

Calf Meal, 25 lbs.; 50 lbs.; 100 lbs.
 Pig Meal, 25 lbs.; 50 lbs.; 100 lbs.
 Colt Meal, 35 lbs.; 50 lbs.; 100 lbs.
 Lamb Meal, 25 lbs.; 50 lbs.; 100 lbs.
 Rabbit Meal, 25 lbs.; 50 lbs.; 100 lbs.
 Write for prices on above.

Practical Suggestions for the

| DISEASE | CAUSE AND SYMPTOMS |
|--|--|
| Constipation | Loss of appetite. Too liberal feed, such as oats, buckwheat, etc. |
| Diarrhoea in Young Chicks | Unsuitable food, no grit to aid digestion. Brooder too cool, allowing chicks to chill. |
| Egg Eating | Kept on frozen or unplowed ground; no shell making material to be found. |
| Gapes | Worms in windpipe of young chicks. Picked up in grass, soil, and filthy drinking water. Wings droop. Head up, accompanied by sneezing, gaping. |
| Limber Neck | A form of poisoning caused by eating decomposed meat, etc., Fowls can't hold neck straight; neck twists and fowls stagger. |
| Obstructions in Throat | Trying to swallow too large particles of food. Choking. |
| Apoplexy | Eyes dilate, head hangs down, wings droop, beak drips, comb blackens, stiff neck, brain enlarged or broken. |
| Bumble Foot | Sores or callous caused by jumping from too high perches. |
| Frosted Combs | When in cold weather combs freeze, turn black and become sore. |
| Chicken Pox | Scaly pimples form on head, face, neck, etc., very contagious. |
| Scaly Legs | Scaly formation on feet and legs, insects found under each scale. Very contagious; due to filth. |
| Head Lice on Small Chicks | Contaminated from the hen. |
| Swollen Head, Watery Eyes, Redness, First Stage of Roup | Caused by dampness, drafts and filth in winter, in summer by lack of shade or protection from extreme heat. Swelled head. |
| Roup | Same as above, advanced stage. Swelled and inflamed head, breathing bad; offensive breath and discharge at mouth and nose; eyes red and canker spots on throat. |
| Cholera and Bowel Trouble | Nothing to digest the food. Without the use of good sharp grit indigestion invariably follows and indigestion is acknowledged to be indirectly the cause of most poultry ailments. |
| Colds | Dampness, drafts, etc. Eyes red, watery, inflamed head. |
| Lice and Mites | Filth and lack of spraying. Fowls affected constantly on the run. |
| Feather Eating | Generally caused by fowls pulling them out for the blood contained. |
| Canker | Generally follows roup. Yellow mucous coating, nose, throat, and windpipe. Very contagious. |
| Bronchitis | Colds, coughs, wheezing, caused by dampness, drafts and filth. |
| Consumption | Last stage of roup. Very contagious. |
| Indigestion | Lack of digestive agents. |
| Crop Bound | Full crop, hard lump, passage stopped from crop to gizzard. Cause, bacon rinds, tough meats, cords, gunny sack ravelings, and various tough and hard substances, wire grass, etc. |

 **Keep your yards and houses clean and well ventilated—use with Conkey's Liquid Lice Killer—and you**

CHARCOAL

Lump for cisterns or brazing. 20 lb. bags, \$1.00

Granulated for poultry. 50 lb. bags \$2.75.

OYSTER SHELL

This is the best eastern shell, ground and triple screened. Lime is essential for hens. This is the best form to feed it. Ours is 98% lime. Price, 100 lbs., \$1.90.

CRYSTAL GRIT

Crystal Grit is pure granite rock, ground and screened to the proper size, and being inlaid with mica, the edges remain sharp as long as any remains in the gizzard. Grit should be kept before the birds at all times.

Price, 100 lbs, \$1.90.

Treatment of Poultry Diseases

REMEDY

Feed green feed—vegetables and dampened bran; a teaspoonful of olive oil daily for two or three days.

Feed mash of finely minced, hard boiled eggs, also cooked rice and cooked vegetables; use Germozone in all drinking water and keep grit constantly before them; disinfect the premises with poultry dip. A permanent cure results.

Feed constantly crushed oyster shell and granulated bone.

Remove infected chicks to clean ground; administer Conkey's Gape Remedy and keep premises well disinfected with Conkey's Nox-I-Cide.

Pour medium warm water down throat until crop is full; hold head down and work contents of crop out of mouth; repeat 3 or 4 times; then give 2 tablespoonsful of castor oil and 2 of milk; feed mash sparingly and keep fowl quiet. Use grit in feed troughs; use Conkey's Limber Neck Remedy in all drinking water.

Pour down the fowl's throat 1 to 2 teaspoonful of olive oil or sweet oil; massage throat until substance is worked out of mouth.

Bleed by cutting a toenail of each foot; drench the head frequently with cold water, until disease abates; for a few days feed dampened bran and skimmed milk; disinfect the premises with Conkey's Nox-I-Cide.

Lower the perches, lance the swelling crosswise and remove the pus and hold the feet two minutes in Conkey's Nox-I-Cide, diluted as directed. Keep fowl out of the dirt.

Bathe the comb with Germozone or Camphorated Oil.

Dip fowl thoroughly with Poultry Dip, as directed. Thoroughly disinfect the premises.

Hold the fowl's legs in Conkey's Nox-I-Cide two minutes, as directed. It rarely fails and will cause legs to again appear normal. Grease legs weekly for a month, the scales will drop and leave the legs healthy. Burn old perches—the scabies are on the roost.

Use head lice ointment, a never-failing remedy.

First remove, then use Germozone as directed. Hold the fowl's head under water until it starts to strangle. It will then reach all diseased parts. Use Conkey's Dip to thoroughly disinfect the premises.

Use Conkey's Roup Remedy in water. Hold head under water until starts to strangle. Disinfect thoroughly with Conkey's Nox-I-Cide. Clean out nostrils and inject Camphorated Oil.

Use Crystal Grit constantly. Then Cholera Cure powder in all drinking water. Spray the premises thoroughly with Conkey's Nox-I-Cide.

Give a 2-grain quinine pill and use Conkey's Roup Remedy in all drinking water.

Use Conkey's Lice Liquid, as directed on the can. Nothing better.

Feed blood meat or fish scraps in all food.

Remove cause. Use Conkey's Canker Remedy, spray premises with Conkey's Nox-I-Cide.

Remove cause and use Conkey's Bronchitis Remedy. Disinfect with Conkey's Nox-I-Cide.

Get a sharp axe and remove head. Burn the remains. Disinfect the premises with Conkey's Nox-I-Cide to save others.

Feed constantly grit and sprouted oats; use Germozone in drinking water, as directed. In five days all will be well.

A dose of sweet oil. Massage the crop upward and downward. If this fails, open the crop, remove contents and sew up with silk thread. Feed grit constantly to prevent.

Germozone in the drinking water—spray the roosts and houses will seldom be troubled by poultry ills.

Poultry and Stock Foods and Remedies

| | |
|--|--------------------------|
| Dr. Hess' Stock Food in 25-lb. pails, each | \$3.50 |
| Dr. Hess' Stock Food in 10-lb. cartons | 1.50 |
| Dr. Hess' Stock Food in 2-lb. cartons | 35c |
| Dr. Hess' Poultry Panacea in 3-lb. cartons | 60c |
| Dr. Hess' Poultry Panacea in 1½ lb cart's | 30c |
| Dr. Hess' Dip & Disinfect. ½ gal. can | \$1.00 |
| Dr. Hess' Roup Remedy, small size, each | 30c |
| Lee's Germozone | 40c, 75c, \$1.50, \$4.50 |
| Licene | 60c |

We also carry the Conkey line of Stock Food and Poultry Supplies, Fly Knocker, etc., as follows:

Conkey's Roup Remedy in 25c, 50c and \$1.00 size.

| | |
|------------------------------|-----------------------------------|
| Conkey's Cholera Remedy in | 25c and 50c size |
| Conkey's Gape Remedy in | 25c size |
| Conkey's Scaly Leg Remedy in | 25c size |
| Conkey's Head Lice in | 25c size |
| Conkey's Lice Powder in | 25c and 50c size |
| Conkey's Lice Liquid in | 60c, 90c and \$1.50 size |
| Conkey's Laying Tonic in | 25c, 50c, \$1.00 and \$3.00 size. |

Conkey's Noxicide in 50c, 70c, \$1.15, \$1.80 size
Conkey's Stock Tonic in 25c, 50c, & \$1.00 size

Ask us for quotations on Conkey Goods in Quantity, including Fly Knocker and other supplies not quoted in above list.

| | |
|---------------------------|------------------|
| Pratt's Poultry Regulator | 30c, 65c, \$1.30 |
| Pratt's Lice Powder | 30c, 60c |
| Pratt's Cow Tonic | 65c |
| Pratt's Bag Ointment | 40c |
| Pratt's Fly Chaser | 90c, \$1.50 |

LICENE

For Killing Body Lice on Chickens

Price, per tube 60c

"WOOD LARK" SQUIRREL AND GOPHER POISON

Guaranteed quick and sure, also very effective on wood rats, mice, etc. Use it so that the chickens and birds will not get it.

Price, 1 lb. can 50c

NEPONSET PLANT POTS

Made of water-proof fabric, unbreakable, for transplanting or starting young plants.

Price, 2¾ inch size 100, 40c; 1000, \$5.50

Price, 3-inch size 100, 75c; 1000, 7.50

Postage extra.

SEAMLESS GRAIN BAGS

We carry at all times a supply of seamless bags and will quote you late prices on request.

WHEAT AND OAT BAGS AND TWINE

Can supply you with wheat and oat bags and twine at the market prices. Write us when in need of bags or twine.

SACK HOLDERS

Very simple and strong, all metal, saves one man. Price \$1.50

Handy Table for Planters

| | Pounds Per Acre | Pounds Per Bu. | | Pounds Per Acre | Pounds Per Bu. |
|-------------------------|--------------------|-------------------|------------------------|--------------------|-------------------|
| Alfalfa | 12-15 | 60 | Emmer | 50-75 | 40 |
| Barley | 60-90 | 48 | Flax | 30-40 | 56 |
| Beans, drilled | 50-60 | 60 | Kaffir Corn, drilled | 4-6 | 56 |
| Beans, Navy | 25-30 | 60 | Kaffir Corn, broadcast | 25- | 56 |
| Blue Grass, Kentucky | 20-25 | 14 | Meadow Fescue | 15-20 | 24 |
| Brome Grass | 20-25 | 14 | Millet, German | 25-30 | 50 |
| Broom Corn, drilled | 12-15 | 46 | Oat Grass, tall | 20-25 | 14 |
| Buckwheat | 40-60 | 50 | Oats | 80-120 | 40 |
| Cane, broadcast | 60-80 | 50 | Onion Sets | 375-400 | 32 |
| Cane, in drills | 6-8 | 50 | Orchard Grass | 25-30 | 14 |
| Clover, Alsike | 8-10 | 60 | Pasture Mixture | 20-25 | |
| Clover, Crimson | 15-18 | 60 | Peas, Garden | 75-90 | 56 |
| Clover, Mammoth | 12-15 | 60 | Potatoes | 600-700 | 60 |
| Clover, Red | 10-12 | 60 | Rape, broadcast | 8-10 | 60 |
| Clover, Sweet | 15-18 | 60 | Red Top | 12-15 | |
| Clover, Sweet, unhulled | 25-30 | 38 | Rye | 60-80 | 56 |
| Clover, White | 6-8 | 60 | Rye Grass, Italian | 20-25 | 24 |
| Clover, White, for lawn | 10-12 | 60 | Rye Grass, Perennial | 20-25 | 24 |
| Corn, in hills | 8-10 | 56 | Soy Beans | 20-25 | 60 |
| Corn, for silage | 25-30 | 56 | Sunflower, Russian | 3-4 | 24 |
| Corn, Sweet, drilled | 12-15 | 46 | Timothy | 8-10 | 45 |
| Cow Peas, broadcast | 80-100 | 60 | Vetch, Winter | 60- | 60 |
| Cow Peas, drilled | 50-60 | 60 | Vetch, Spring | 100- | 60 |
| | | | Wheat | 100-120 | 60 |

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

If in need of more order sheets and self-addressed envelopes, ask for them, and they will be mailed to you free.

[illegible]

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***Blatchford's* CALF MEAL**

**First on the Market — First in Quality
— First in Results**

BLATCHFORD'S Calf Meal is the *original* milk-substitute. It was the *first* on the market. For over one-third of a century it has been successfully used in raising calves by the most progressive farmers and dairymen in this country. It is the *only* calf meal backed by so remarkable a record.



Its success is due to three things. **First**—its *quality*. Blatchford's is above all a *quality* calf meal. Only the best materials are used in its manufacture. It contains no waste materials or by-products of low feeding value. **Second**—it contains all the nutritive and growth-producing properties required by the calf. The finest and healthiest of calves can be raised upon it. **Third**—it is economical. One pound makes a full gallon of pure milk-substitute and it can be used at *less than half the cost* of using milk.

Blatchford's Calf Meal raises calves from babyhood. It is extremely palatable. It is easy to feed. It saves both milk and money. It will *pay* you to use it.

Sold in 100-, 50- and 25-pound bags.
Satisfaction guaranteed with every bag.

Blatchford's

MILK MASH

**Should be Every Chick's
First Feed**

BLATCHFORD'S Milk Mash is the favored starting and growing feed of the most prominent poultry-raisers in the country. It contains all the feeds and nutriment chicks need *right from the start*. It shields them from white diarrhea, bowel trouble and leg weakness.



2 1/4 lbs. at 8 weeks!
Trade-mark
Reg. U. S. Pat. Off.

This mash is neither a tonic nor a medicine but a nutritious, wholesome, palatable body-builder. It promotes health, vitality and growth by building up sturdy, disease-resistant frames.

It does not force, but, by supplying proper nourishment to each and every part of the body, it promotes steady and complete development in the shortest possible time.

Blatchford's Milk Mash contains no screenings, hulls or cheap by-products from the manufacture of breakfast foods, cereal foods or scratch grains. It carries chicks *all the way*—starts, grows and matures—*without change of feed*.

This is the safest, the most economical and the best starting and growing feed on the market. Use it. Sold in 100- and 25-pound bags and 4-pound cartons. Satisfaction guaranteed.

Blatchford's

"Fill-the-Basket" EGG MASH

BLATCHFORD'S "Fill-the-Basket" Egg Mash supplies the hen with the *surplus* nourishment she requires for the maximum egg-production. It successfully solves the problem of securing eggs both winter and summer.

Sold in 100- and 25-pound bags. Every bag guaranteed to give satisfaction.



TRADE-MARK

Blatchford's

LAMB MEAL

**Weans Lambs Quickly
Makes Sturdy Youngsters**

THIS nourishing milk-equal weans lambs properly and produces rapid growth. It is easily assimilated by the tender stomach of the young lamb. It contains all the elements found in natural milk, including oil, sugar and albuminous compounds in correct proportions and in the most digestible form for lambs.

Lambs of every breed can be raised upon it. It matures them rapidly, prevents scours, and avoids the usual setback in the change from the ewe's milk to ordinary feed. It successfully solves the problem of what to do with orphan lambs.

Sold in 100-, 50- and 25-pound bags. Guaranteed satisfactory.

UNION SEED & FUEL CO., Boise, Idaho